



REG. U.S. PAT. OFF.

# Directory of Uses

for

**CELLUFOAM AND**

**CELL-U-BLANKET**



**MASONITE CORPORATION**

**111 WEST WASHINGTON STREET**


**CHICAGO, ILLINOIS**



# **DIRECTORY OF USES**

## **FOR**

### **CELLUFOAM AND CELL-U-BLANKET**



Cellufoam, the light weight thermal and acoustical insulation, manufactured by the Cellufoam Products Division of Masonite Corporation, embodies many of the desirable qualities of various types of industrial insulation. Combining light weight, workability and stabilized insulating efficiency, this semi-rigid flexible board offers unlimited possibilities in solving heat, cold and acoustical insulating problems.

For all types of home insulation and in industrial applications where covered insulation is desirable, Masonite Cell-U-Blanket merits thorough investigation. It will not shrink—and can't settle. The core is flame-proofed and the coverings are wind and water-proof. Easy to handle and install, Cell-U-Blanket combines the advantages of batt or blanket insulation and semi-rigid boards.

The versatility of—and the possible uses for—both Cellufoam and Cell-U-Blanket can be expressed most clearly in terms of successful applications. The pages following the description of the Cellufoam manufacturing process outline in case history form many successful applications. Among them may be the guide to solving your insulation problem. For additional information write:

**MASONITE CORPORATION**

111 W. Washington Street  
Chicago, Illinois

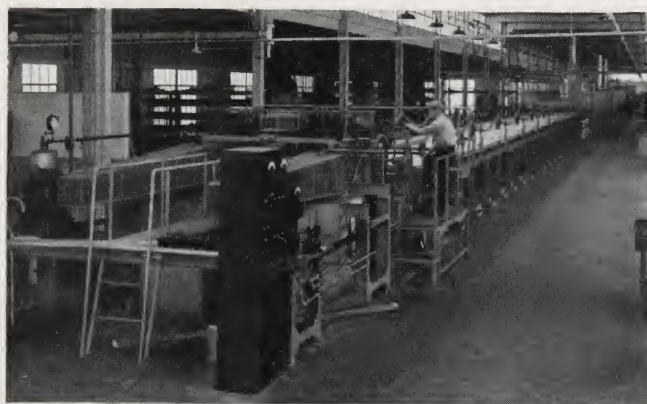




The Cellufoam Plant in Chicago



Beater and Hydrating Machine



Control End of Fourdrinier



Another View of Fourdrinier

**I**N A modern and efficient plant situated in the Clearing Industrial District of Southwest Chicago, a comparatively new line of Masonite Products is being made from wood. Both Cellufoam, the basic product produced for the industrial insulation field and Cell-U-Blanket, the quality blanket type home insulation which utilizes Cellufoam as its insulating core, are manufactured by the Cellufoam Products Division of Masonite Corporation.

Principal raw material used in the manufacture of Cellufoam is Southern Pine Sulphate Kraft Cellulose, a form of processed wood fibre. This raw material is obtained in dry lap form and in the initial manufacturing operation is placed in a beater where the dry lap is hydrated and processed to the proper degree of defibration.

Then chemicals for flame and water proofing, as well as materials to protect the finished product from rot, mould and termites are added to the watery mass. Next, a foaming agent is introduced and the material passes into mechanical agitators where, by violent whirling, millions of foamy air bubbles are created. The whirling and mixing operation increases the volume of the aerated mixture 300 per cent.

The resulting material is carried to the head box of the Fourdrinier or forming machine and then on to the moving screen or Fourdrinier wire where it is formed into wet lap approximately 8' wide and in a continuous sheet of uniform density and thickness. The foaming agent

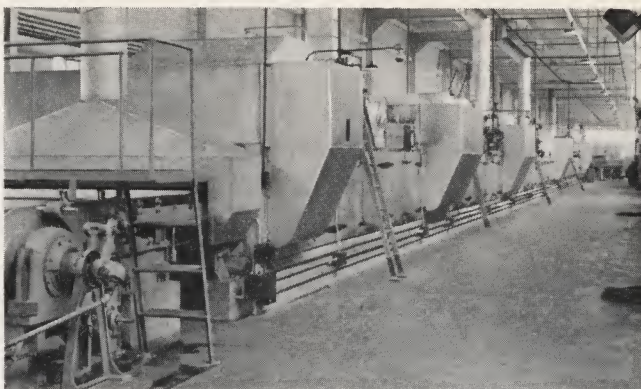


which creates the infinite number of air cells in the wet lap mass, supports the fibrous structure of the still wet Cellufoam as it enters the driers.

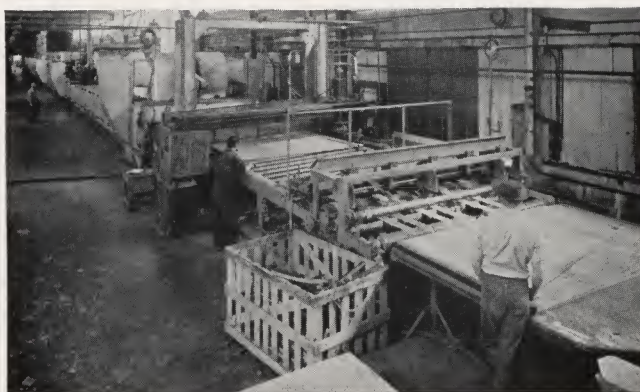
A number of drying zones where the temperature varies from 300° F. to 700° F. make up the drying unit. As it enters the driers the wetlap consists of approximately 95% air and water by volume. After passing through the various drying zones it emerges bone dry—a semi-rigid thermal and acoustical insulating board weighing less than one and one-half pounds per cubic foot!

Automatic cut off saws are located at the end of the drier where the continuous sheet of Cellufoam is cut to proper length. The resulting sections are next carried by conveyors to the slitter knives which trim and cut them to pre-determined widths. Cellufoam is available in any convenient length and up to eight feet in width. It can be die cut, laminated and fabricated in any number of ways, according to the use for which it is intended.

Masonite Cell-U-Blanket consists of a Cellufoam core which is encased in two layers of specially treated asphalt paper. One covering, the vapor barrier, is asphalt saturated and glaze coated Kraft paper which is attached to the Cellufoam with an asphalt adhesive. The back covering is embossed saturated Kraft and serves as a waterproof covering and breather sheet. Masonite Silver Sheen Cell-U-Blanket differs from the above in that a reflective non-metallic covering is used on the vapor barrier side of the insulating blanket.



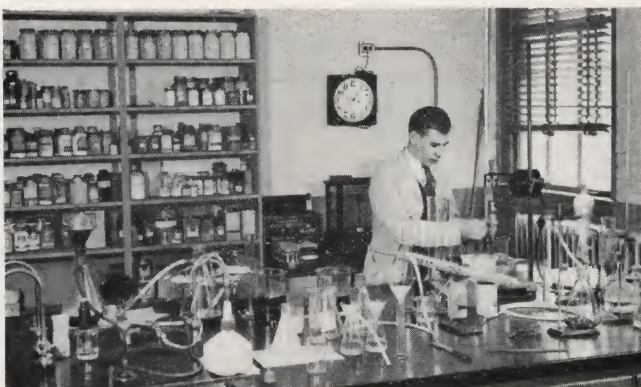
High Temperature Drying Units



Automatic Cutting Equipment



A View of the Warehouse



The Process Control Laboratory







# Another Practical Use for **MASONITE PRODUCTS**

Building Construction  
Insulation  
Walls and Roof  
Between Studs and Raft-  
ers

USE: Insulation between studs and rafters --  
Cell-U-Blanket

MASONITE MATERIAL USED:

Cell-U-Blanket

OTHER MATERIAL FREQUENTLY USED:

Mineral wool, glass wool, batts, or blankets

HOW MASONITE PRODUCT IS USED:

Cell-U-Blanket is a semi-rigid insulation cut to fit between the studs and shipped in a long roll.

Strips of Cell-U-Blanket should be cut about 3 1/4" longer than the space between the studs to be filled. It should be cut with sturdy scissors.

To prepare insulation for the top plate fold back the Cellufoam about 2" from the end of the cut section. Apply the vapor barrier surface over the top or bottom plate and staple it firmly. The part folded back will then push itself against the plate and add to the insulation value.

Be sure to staple the vapor barrier side toward the room and breather cap side toward the outside of the wall or roof. Staple it in such a way that the face of the vapor barrier is set back from the line of the wall approximately 1" and yet so that the flaps meet on the face of the studs. This gives a solid vapor barrier.

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

The vapor barrier helps prevent condensation in the insulation material. Moist insulation is inefficient.

The blanket rests between the inner and outer walls. This adds to the insulation because of the dead air space at both sides of the Masonite Cell-U-Blanket.

The side toward the outside wall or roof is protected with a waterproof breather cap. This protects the insulation from getting wet if there should be a leak in the outer wall but also allows moisture which might get into the insulation to evaporate away. It is not trapped within the sheets of paper.

Masonite Cellufoam will stay in place. It will not settle or sag.



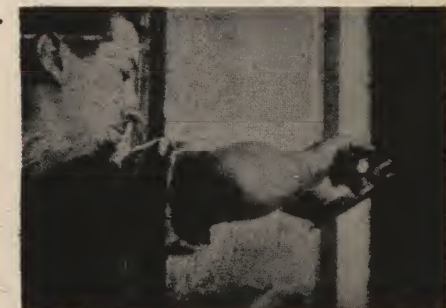
A cross-section of Masonite Cell-U-Blanket showing the core of Cellufoam and the vapor barrier casing complete with stapling flange.



Masonite Cell-U-Blanket should be cut 3/4 inches longer than the dimension between top and bottom plates, using sturdy scissors or snips.



Paper should be cut about 2 inches on both sides and the Cellufoam folded back. Apply and staple vapor barrier to cover face of plate.



For side-wall insulation, staple flange of Masonite Cell-U-Blanket to face of studs, using 1/4-inch-long staples spaced not more than 6 inches o. c.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

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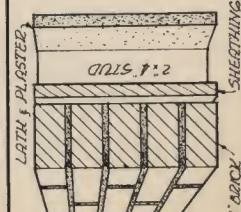
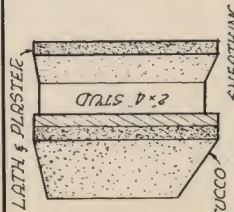
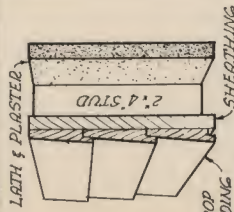


# COMPARATIVE HEAT TRANSMISSION COEFFICIENTS USING MASONITE CELL-U-BLANKET IN VARIOUS TYPES OF CONSTRUCTION

## INTERIOR FINISH

COEFFICIENTS EXPRESSED IN BTU PER HOUR  
PER SQUARE FOOT PER DEGREE Fahrenheit  
DIFFERENCE IN TEMPERATURE, AND BASED  
ON WIND VELOCITY OF 15 MILES PER HOUR.

TYPICAL CONSTRUCTION			EXTERIOR FINISH	SHEATHING	NO INSULATION BETWEEN STUDS						INSULATION BETWEEN STUDS																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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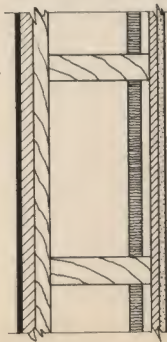
\* LOWER FIGURE DENOTES "U" VALUE USING MASONITE SILVER SHEEN CELL-U-BLANKET





REFERENCE TO THIS CHART WILL SHOW THAT A 1" WOOD ROOF DECK WITH A METAL LATH AND PLASTER CEILING WILL LOSE A COAL VALUE OF 662 TONS PER THOUSAND SQ FEET OF AREA IN ONE HEATING SEASON, WHEN EXPOSED TO A TEMPERATURE DIFFERENCE OF 60°. THE SAME ROOF INSULATED WITH 1/2" MASONITE INSULATING LATH AND 1" MASONITE SILVER SHEEN CELL-U-BLANKET WILL LOSE A COAL VALUE OF ONLY 208 TONS DURING ONE HEATING SEASON.

## TYPE OF ROOF



5 PLY PITCH  
AND GRAVEL ROOF  
1" WOOD DECK

## TYPE AND AMOUNT OF INSULATION

NO INSULATION, METAL LATH & PLASTER CEILING

METAL LATH AND  
PLASTER CEILING

1/2" MASONITE  
CELL-U-BLANKET

3/4" MASONITE  
CELL-U-BLANKET

1" MASONITE  
CELL-U-BLANKET

1/2" MASONITE  
CELL-U-BLANKET

3/4" MASONITE  
CELL-U-BLANKET

1" MASONITE  
CELL-U-BLANKET

1/2" MASONITE  
CELL-U-BLANKET

3/4" MASONITE  
CELL-U-BLANKET

1" MASONITE  
CELL-U-BLANKET

NO INSULATION, METAL LATH & PLASTER CEILING

METAL LATH AND  
PLASTER CEILING

1/2" MASONITE  
CELL-U-BLANKET

3/4" MASONITE  
CELL-U-BLANKET

1" MASONITE  
CELL-U-BLANKET

1/2" MASONITE  
CELL-U-BLANKET

3/4" MASONITE  
CELL-U-BLANKET

1" MASONITE  
CELL-U-BLANKET

1/2" MASONITE  
CELL-U-BLANKET

3/4" MASONITE  
CELL-U-BLANKET

1" MASONITE  
CELL-U-BLANKET

SHINGLE ROOF  
UNHEATED ATTIC

COEFFICIENT OF  
HEAT TRANSMISSION

PER CENT SAVING  
DUE TO INSULATION

SQ. FT. OF RADIA-  
TION REQUIRED  
PER 1000 SQ. FT.  
OF AREA FOR 10°  
DIFFERENCE IN  
TEMPERATURE

STEAM

HOT WATER

10°

20°

30°

40°

50°

60°

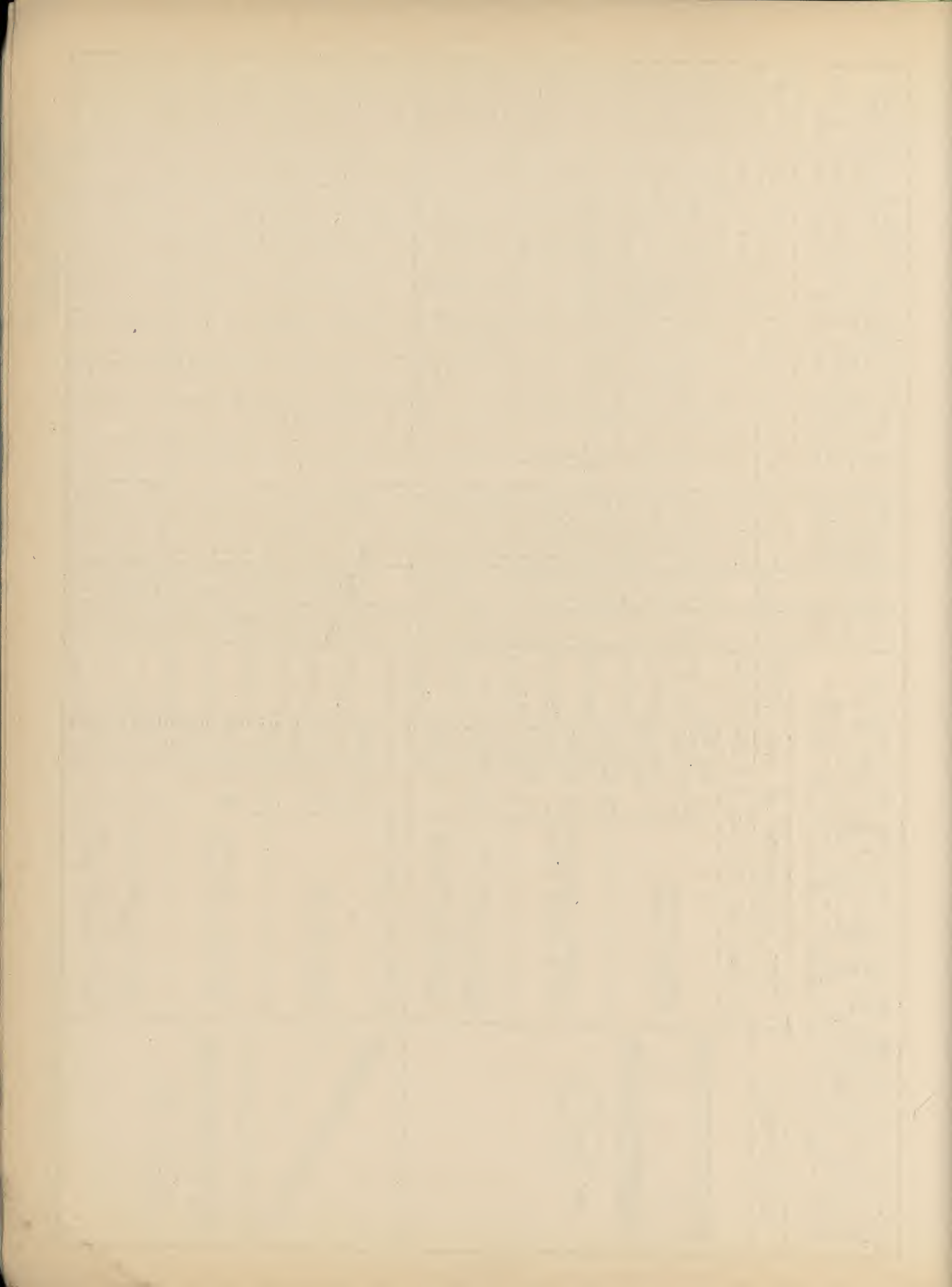
70°

80°

90°

100°

HEAT LOSSES IN TONS OF COAL PER 1000 SQ. FT. OF ROOF AREA PER 210 DAYS AT DIFFERENCES OF TEMPERATURE SHOWN. CALCULATIONS BASED ON THE AVERAGE HEATING VALUE OF COAL, 12000 BTU PER LB., AND FURNACE EFFICIENCY OF 60% TEMPERATURE DIFFERENCES IN DEGREES FAHRENHEIT.

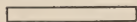
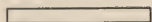
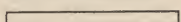




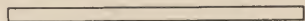

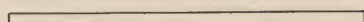
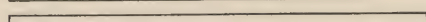
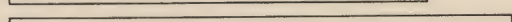
# RECOMMENDED METHODS OF INSULATING MASONITE ARCHED ROOF FARM BUILDINGS

## THERMAL RESISTANCE OF COMMON METHODS

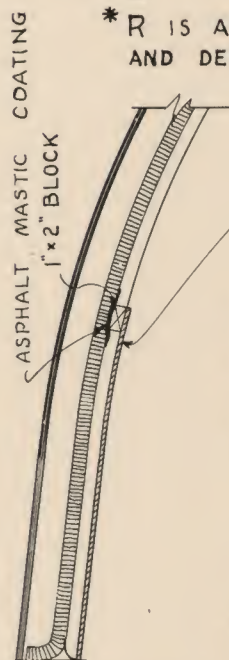
\* R

8" CONCRETE WALL		1.45
3/4" DROP SIDING, PAPER & STUDS		1.62
1" BOARDS & PREPARED ROOFING		1.93

## THERMAL RESISTANCE OF WALLS USING MASONITE MATERIALS

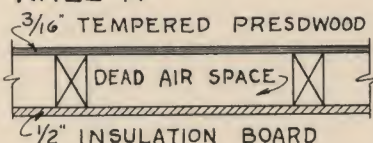
WALL A	3/16" TEMP. PRES	& 1/2" INS. BOARD		3.33
" B	"	" & 1/2" CELL-U-BLANKET		3.84
" C	"	" & DUBBLSEAL		4.01
" D	"	" & 3/4" CELL-U-BLANKET		4.70
" E	"	" & 1" CELL-U-BLANKET		5.46

\* R IS AN INDICATION OF THE INSULATION VALUE OF A MATERIAL OR WALL AND DENOTES ITS RESISTANCE TO HEAT PASSING THROUGH IT.



A TWO FOOT PECKING STRIP OF MASONITE 1/8" PRESWOOD OR 1/8" TEMPERED PRESWOOD SHALL BE USED AT BASE OF POULTRY HOUSE WALLS TO PROTECT INSULATION MATERIAL

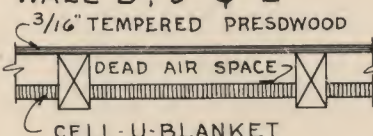
### WALL A



TOTAL INSULATION VALUE - WALL A 3.33

LOW FIRST COST  
EASY TO APPLY  
NO VAPOR BARRIER IN INTERIOR

### WALL B, D & E

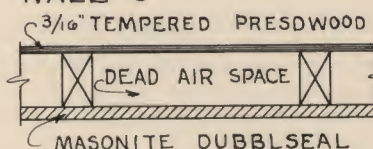


TOTAL INSULATION VALUE - WALL B 3.84

" " " - " D 4.70  
" " " - " E 5.46

LOW FIRST COST AS IN WALL A  
EASY TO APPLY AS IN WALL A  
POSITIVE VAPOR BARRIER ON INNER SURFACE  
DURABLE BECAUSE OF TOUGH BACKING OF MASONITE TEMPERED PRESWOOD

### WALL C



TOTAL INSULATION VALUE - WALL C 4.01

LOW FIRST COST AS IN WALL A  
EASY TO APPLY AS IN WALL A

**MASONITE CORPORATION**

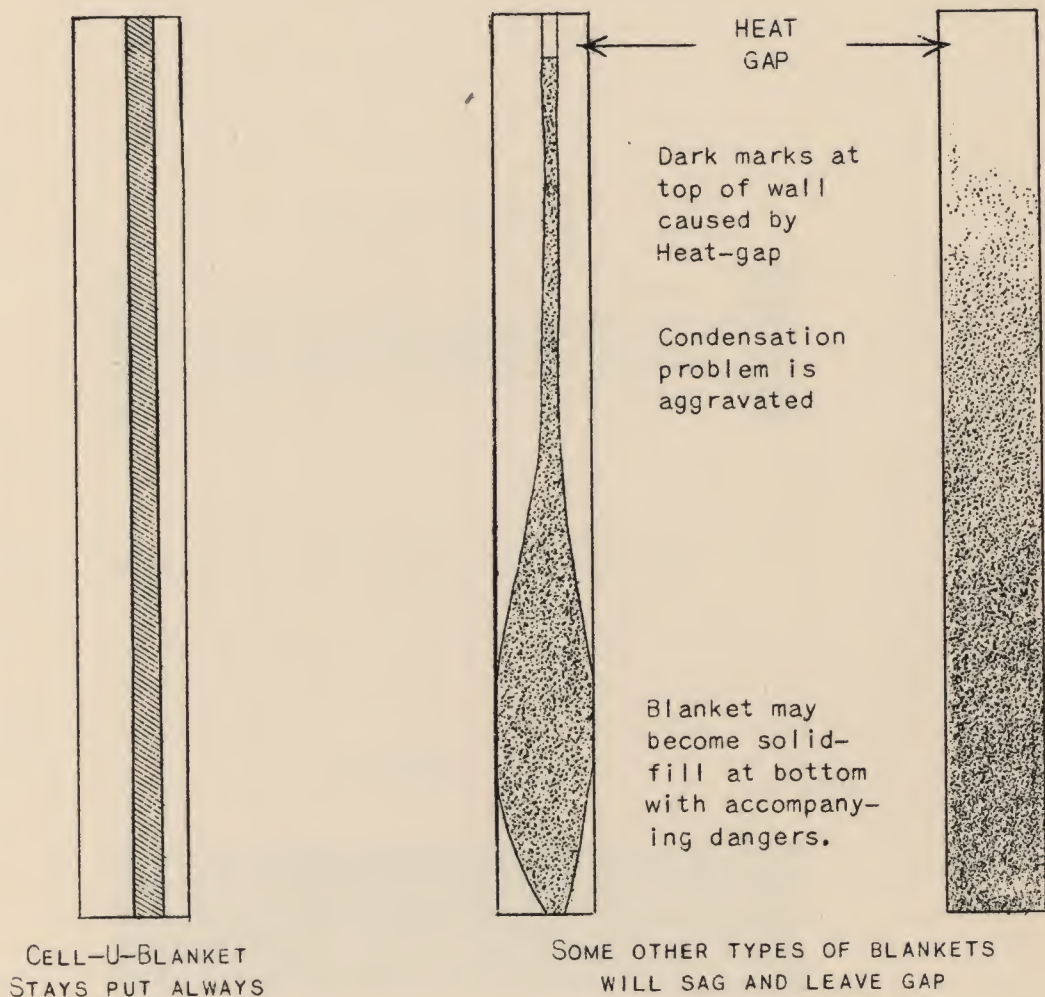
111 W. Washington Street, Chicago, Illinois  
Engineering Department • Drawing No. AFB 170





# What Qualities Are Needed in a Good Insulation?

A. If it settles and sags, it leaves a heat gap (transom effect) at the top of the room where insulation is most needed.



CELL-U-BLANKET IS THE ONLY BLANKET  
OR FILL TYPE INSULATION THAT STAYS WITH-  
OUT THE HELP OF COVERING MATERIAL. IT  
NEVER SETTLES.

# Effect of the of the

The following table shows the results of the experiments conducted on the effect of the various factors mentioned above on the rate of the reaction.

Factor	Rate of Reaction
Temperature	Increases with temperature
Concentration	Increases with concentration
Pressure	Increases with pressure
Catalyst	Increases with catalyst

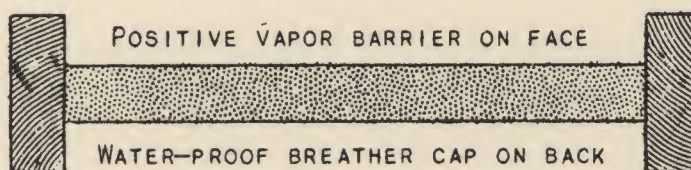
The results of the experiments show that the rate of the reaction is affected by the various factors mentioned above. The rate of the reaction increases with temperature, concentration, pressure, and catalyst.



WHAT QUALITIES ARE NEEDED IN A GOOD INSULATION?

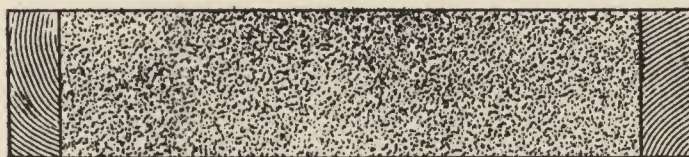
- B. If it gets wet from leaks or condensation, insulating qualities are greatly reduced.

#### CELL-U-BLANKET



EVEN IF CELL-U-BLANKET IS SOAKED BY ACCIDENT,  
IT WILL DRY OUT TO ORIGINAL CONDITION.

#### MINERAL FILLS



MOISTURE CAN AND DOES CONDENSE IN  
WALL-THICK FILL MATERIAL. THIS CUTS  
DOWN INSULATING QUALITIES.

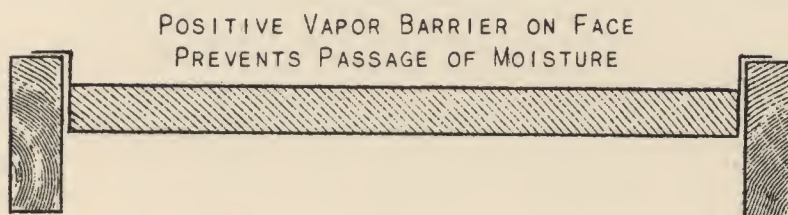




## WHAT QUALITIES ARE NEEDED IN A GOOD INSULATION?

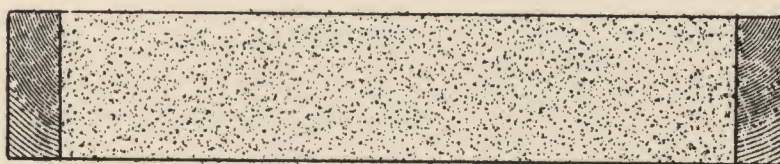
- C. If it holds moisture against inside or outside walls, decoration or outside paint may be damaged.

### CELL-U-BLANKET



AIR SPACE BETWEEN BLANKET AND WALL SURFACES ADDS  
TO INSULATION VALUE AND HELPS KEEP WALLS DRY.

### MINERAL FILLS



MOISTURE CONDENSED AND TRAPPED IN WALL-THICK  
FILL INSULATIONS IS HELD UP AGAINST BOTH INSIDE  
AND OUTSIDE WALLS. THIS MAY STAIN DECORATING  
AND MAY INJURE PAINT FILM ON WALLS. THIS MAKES  
WALLS DAMP.





# SCORE CARD

## of

# GOOD WALL INSULATING MATERIAL

DESIRABLE QUALITIES	Wall-thick Mineral Fills	Mineral Batts or Blankets	Cell-U- Blanket	Other Blanket
Rigid enough to stay in place until nailed			✓	
Always stays in place - no heat-gap to make dark line on wall			✓	
Cuts without mess or dust			✓	
Nothing to irritate hands or face			✓	✓
Adequate insulation for both summer and winter comfort, <u>if</u> <u>material stays where put</u>	✓	✓	✓	✓
Flame Proofed	✓	✓	✓	✓
Has positive vapor barrier on face		Some	✓	✓
Has waterproof breather-cap on back			✓	Some
If soaked will dry out to original condition			✓	
Positive air space Protects inner and outer walls from soggy materials			✓	✓
Unattractive to rats and mice			✓	✓
Insulating material Protected from fungus and mould	✓	✓	✓	Some

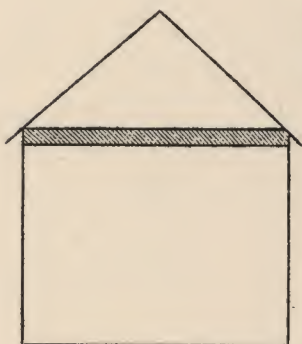




# ROOF LINE INSULATION MAKES ATTIC SPACE USEABLE

If the space under the rafters can ever be used, roof heat losses should be stopped at the rafters.

*Here are two typical  
\$6,000 one story houses  
with unfinished attics*



HOUSE A

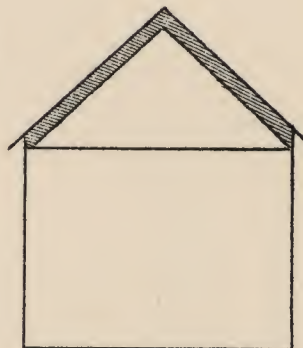
COST - \$6,000

Useable Floor Space in Attic - None.

Estimated cost of insulation material\*

1" Silversheen Cell-U-Blanket

800 sq. ft. @ 6-1/2¢ - \$52.00.



HOUSE B

COST - \$6,000

Useable Floor Space - All Attic.

Adds 50% extra Floor Space in house.

Estimated cost of insulation material

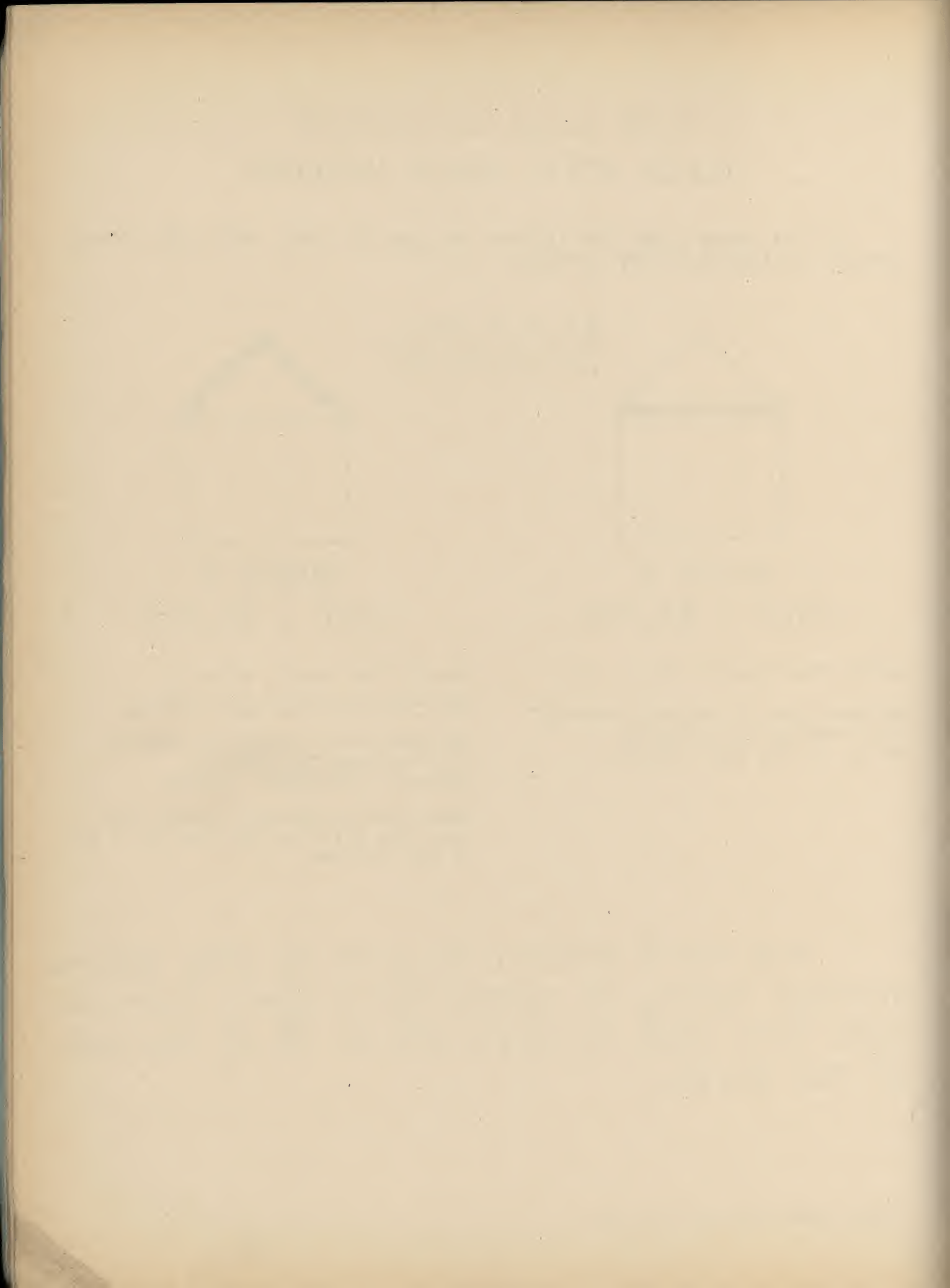
1" Silversheen Cell-U-Blanket

1000 sq. ft. @ 6-1/2¢ - \$65.00.

Added cost for 50% extra useable floor space only \$13.00 or less than 1/4 of 1% of cost of house.

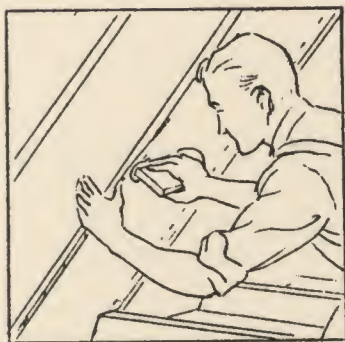
You can't afford to give up play space, storage space, or space for a spare bedroom some time just to save 1/4 of 1% of the cost of the house.

\* Approximate Material Cost Only



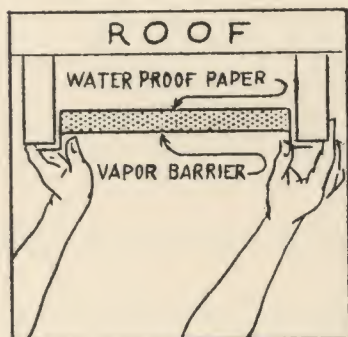


# CELL-U-BLANKET, AN IDEAL INSULATING MATERIAL FOR USE IN ROOF RAFTERS



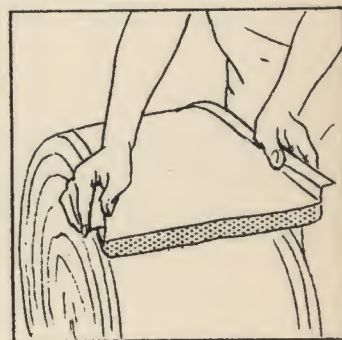
1. Does not flop down on applicator before nailed in place – stays up.

2. Easily cut to fit. No gaps at first or later to leak heat.



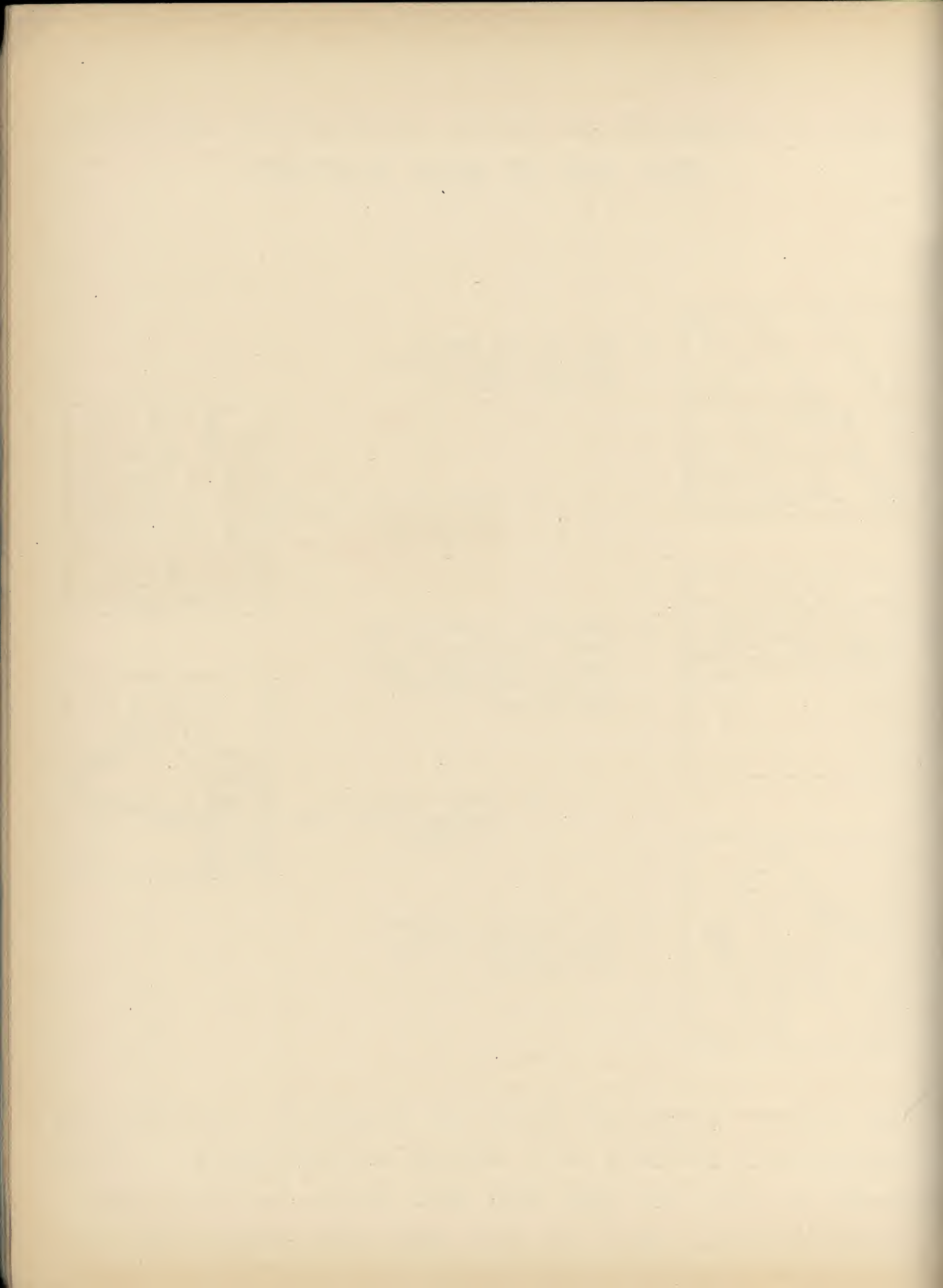
3. Stays dry. Sealed on both sides. Protected from roof leaks by water-proof paper, and from condensation by vapor barrier.

4. Clean – can be cut anywhere without leaving a mess.



5. Non-irritating to hands or face. No rash or itchy after-effects.

No other type of fill or blanket insulating material offers all these advantages. They mean a lot to the man who puts in his own insulation, and to the man who pays for it.





## *Another Practical Use for* **MASONITE PRODUCTS**

Building Construction  
Insulation - Semi-rigid  
Roof  
Prefabricated Houses

**USE:** Semi-rigid insulation between  
rafters of prefabricated  
houses

### **MASONITE MATERIAL USED:**

Cell-U-Blanket

### **OTHER MATERIAL FREQUENTLY USED:**

Mineral insulation, vegetable  
insulation

### **HOW MASONITE PRODUCT IS USED:**

Cell-U-Blanket is usually cut  
in the fabricator's plant to  
the desired length from long  
rolls of the proper width  
and stapled in place with va-  
por barrier facing in.



Picture courtesy of  
Long Bell Lumber Co., Enid, Okla.

### **SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:**

It has positive vapor barrier on the inside face. This prevents condensation in the insulating material. This gives positive protection to the decoration on the inside face, and to the paint on the outside face of the wall.

## **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

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## Another Practical Use for **MASONITE PRODUCTS**

Building Construction  
Insulation -  
Prefabricated Houses  
Walls Between Studs

**USE:** Insulation for walls between studs  
of prefabricated houses.

### **MASONITE MATERIAL USED:**

Cell-U-Blanket

### **OTHER MATERIAL FREQUENTLY USED:**

Mineral wool, blankets, batt insulation

### **HOW MASONITE PRODUCT IS USED:**

Cell-U-Blanket is cut to the proper size for each opening, laid between the studs and fastened with staples on the face or sides of the studs.

The flange on the Cell-U-Blanket allows the insulation to be placed approximately 1" inside the inner surface of the wall. This allows a dead air space which adds to the insulation value.

The Cellufoam is positively attached at the top and bottom against the head plate and the toe plate. In this way there is no insulation gap at these points.

The vapor barrier face of Cellufoam is toward the warm side of the room. This helps to prevent condensation in the insulation itself. Moist insulation is poor insulation.

### **SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:**

Because it comes to fit the openings between the studs, the labor cost is reduced to a minimum.

The flange attachment method and the vapor barrier phase allows a continuous vapor barrier on the inside of the room.

Since Cellufoam, the core of Cell-U-Blanket, is a semi-rigid insulation material, it will not settle or sag. Insulation which settles down leaves an insulation gap at the top of the room. This never happens with Cell-U-Blanket.

Freight costs are held at a minimum. Cellufoam is one of the lightest forms of insulation known. It weighs but a pound and a half per cubic foot.



Picture courtesy of  
General Fabricators, Inc., Wash., D. C.





# Another Practical Use for **MASONITE PRODUCTS**

Building Construction  
Insulation  
Demountable Houses -  
Military Huts

USE: Insulation in walls and ceilings  
of demountable military huts

MASONITE MATERIAL USED:

Cell-U-Blanket

OTHER MATERIAL FREQUENTLY USED:

Mineral wool, board insulation

HOW MASONITE PRODUCT IS USED:

It is stapled directly to the walls  
and ceilings so that insulation  
in wall and ceiling is applied at  
the same time in the same opera-  
tion.

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM  
PRODUCT FOR THIS PURPOSE:

Cell-U-Blanket is one of the light-  
est weight forms of insulation  
known.

The insulation value is high.

Masonite Cell-U-Blanket has vapor  
barrier on the side toward the  
room. This prevents condensa-  
tion within the insulation.  
Moist insulation is poor insula-  
tion.

The back of Cell-U-Blanket has a waterproof breather cap. This not only keeps  
the insulation dry if there should be a leak in the roof but it gives any  
moisture which might get into the insulation a chance to escape through the  
pores of the breather cap.

Masonite Cell-U-Blanket, a semi-rigid form of insulation, stays in place. It  
can not settle or sag. It will last as long as the building.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insula-  
tion. It is the core of Cell-U-Blanket.



Picture courtesy of  
Pacific Huts, Inc., Seattle, Washington





# Another Practical Use for **MASONITE PRODUCTS**

Building Construction  
Insulation -  
Floors

**USE:** Insulation under floors placed over  
the ground with no cellar.

**MASONITE MATERIAL USED:**

Cell-U-Blanket

**OTHER MATERIAL FREQUENTLY USED:**

Various forms of insulation

**HOW MASONITE PRODUCT IS USED:**

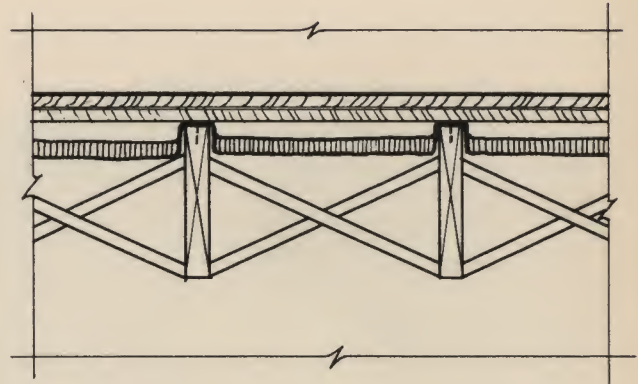
The bridging on the joists is dropped  
about 2" below its usual position.

This leaves the space for Cell-U-

Blanket to be slipped between the joists. Cellufoam is put in place as a last  
operation before the sub floor is applied. The finished floor is then placed  
above the sub floor.

Used in this way by

U. S. Naval Hospital, Chelsea, Mass.



**SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:**

The insulation fits in place readily with a minimum amount of cutting because  
Cell-U-Blanket comes in standard widths to fit between joists.

The vapor barrier helps to prevent condensation in the Cell-U-Blanket.

The Cell-U-Blanket has high insulation value.

## **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

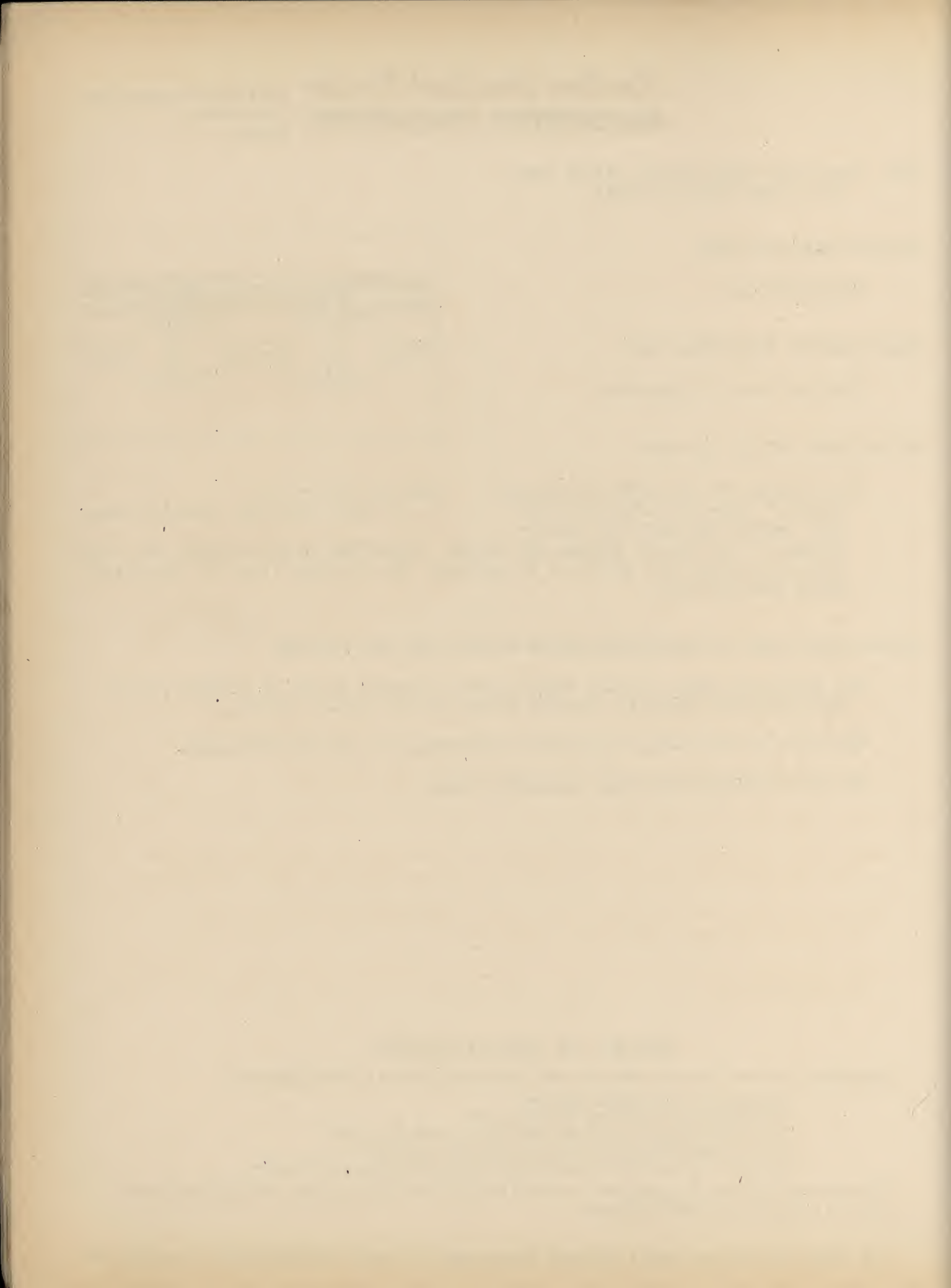
It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.





## *Another Practical Use for* **MASONITE PRODUCTS**

Building Construction  
Insulation  
Refrigerator Coolers -  
Walk-In Type

USE: Insulation in walk-in coolers

MASONITE MATERIAL USED:

Cellufoam and Cell-U-Blanket

OTHER MATERIAL FREQUENTLY USED:

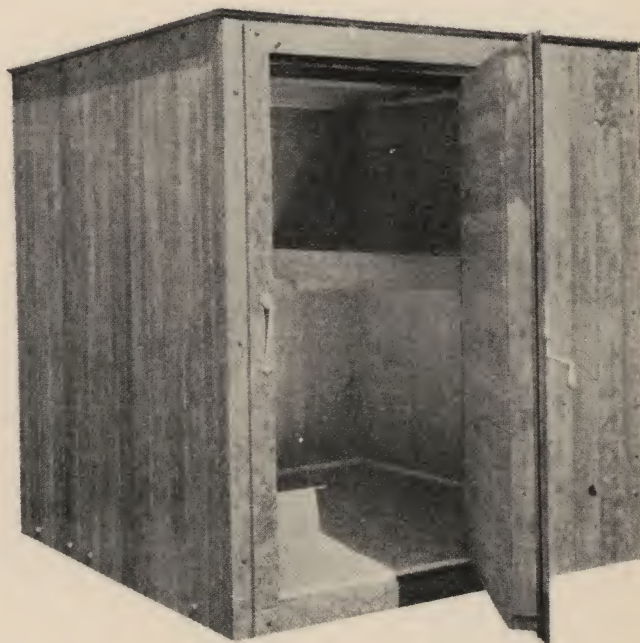
Cork, wood bark, mineral insulation

HOW MASONITE PRODUCT IS USED:

Cellufoam is cut to the convenient size and built up to the desired thickness.

In some cases, Cellufoam is laminated to both sides of Tempered Presdwood to give it a solid backing which can then be slid in place. This provides structural strength with a minimum space in the wall.

A vapor barrier paper is used on the warm side to stop condensation.



Picture courtesy of  
Harry J. Simons Lumber and Mfg. Co.  
St. Paul, Minnesota

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Sheets cut to size save labor.

Semi-rigid Cellufoam is uniform insulation. It will not pack down to more than recommended density, or fluff out to less than efficient consistency.

Because it comes in this semi-rigid sheet, full advantage of dead air spaces and multiple surfaces is secured.

Cellufoam will not rot. It is not injured by moisture. When dry it has full insulation value.

### **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

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# THE HISTORY OF THE UNITED STATES



The history of the United States is a story of growth and change. From the first settlers to the present day, the nation has evolved through various challenges and triumphs. The early years were marked by exploration and the establishment of colonies. The American Revolution led to the birth of a new nation, and the subsequent decades saw the expansion of territory and the development of a unique American identity. The Civil War was a pivotal moment in the nation's history, leading to the abolition of slavery and the strengthening of the federal government. The 20th century brought significant social and economic changes, including the rise of industry, the growth of the middle class, and the challenges of the Great Depression and World War II. Today, the United States continues to shape the world through its leadership in science, technology, and international relations.



# Another Practical Use for **MASONITE PRODUCTS**

Building Construction  
Insulation  
Windows - Caulking

USE: Caulking around windows

MASONITE MATERIAL USED:

Cellufoam

OTHER MATERIAL FREQUENTLY USED:

Mineral wool

HOW MASONITE PRODUCT IS USED:

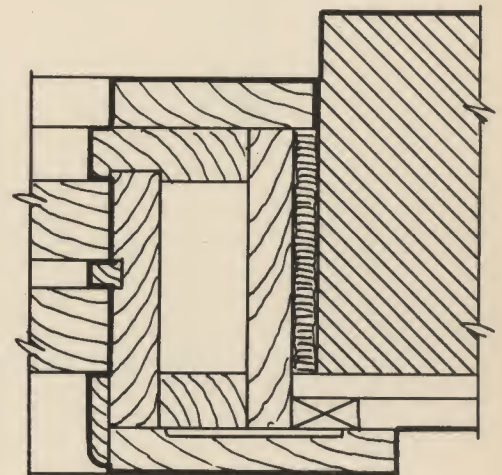
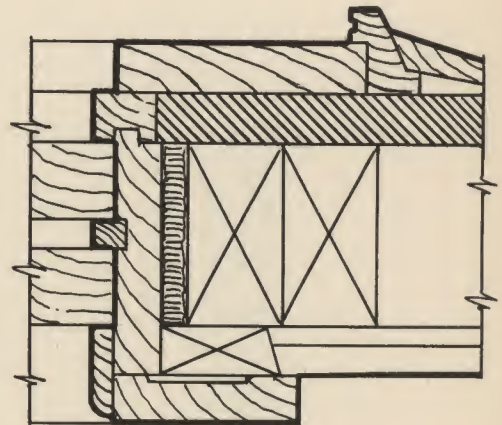
Cellufoam is cut to narrow strips and stuffed around all four sides of the window in order to stop drafts and keep the house warmer.

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Masonite Cellufoam, because it is a semi-rigid material, can be cut to size with sharp edges.

Because it is cut to size, open spaces are filled evenly with a minimum of labor.

It will not pack down -- will leave no gaps.



## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

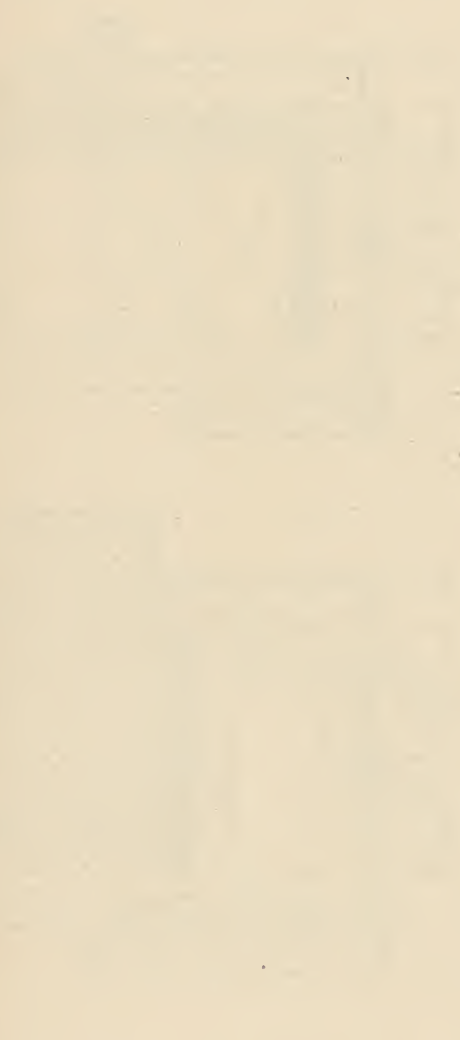
It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

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# *Another Practical Use for* **MASONITE PRODUCTS**

Building Construction  
Interior Walls -  
Sound-deadened Walls

USE: Sound-deadening

MASONITE MATERIAL USED:

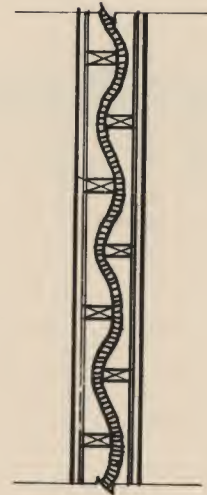
Cellufoam, Cell-U-Blanket

OTHER MATERIAL FREQUENTLY USED:

Mineral Wool

HOW MASONITE PRODUCT IS USED:

Two sets of studs are erected in a staggered way so that one forms the set of studs for one wall, and the other forms the set of studs for the other wall. In between the two sets of studs thick sheets of Cell-U-Blanket or Cellufoam should be woven to absorb the sound that otherwise may be transmitted through the wall.



SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

It is an efficient sound control material.

The long rolls reduce cutting and handling expense.

It can be woven between the studs with low labor cost because it is firm and semi-rigid.

The paper on both sides of the blanket reduces the risk of tearing the sound-deadening material when weaving it in the wall.

## **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

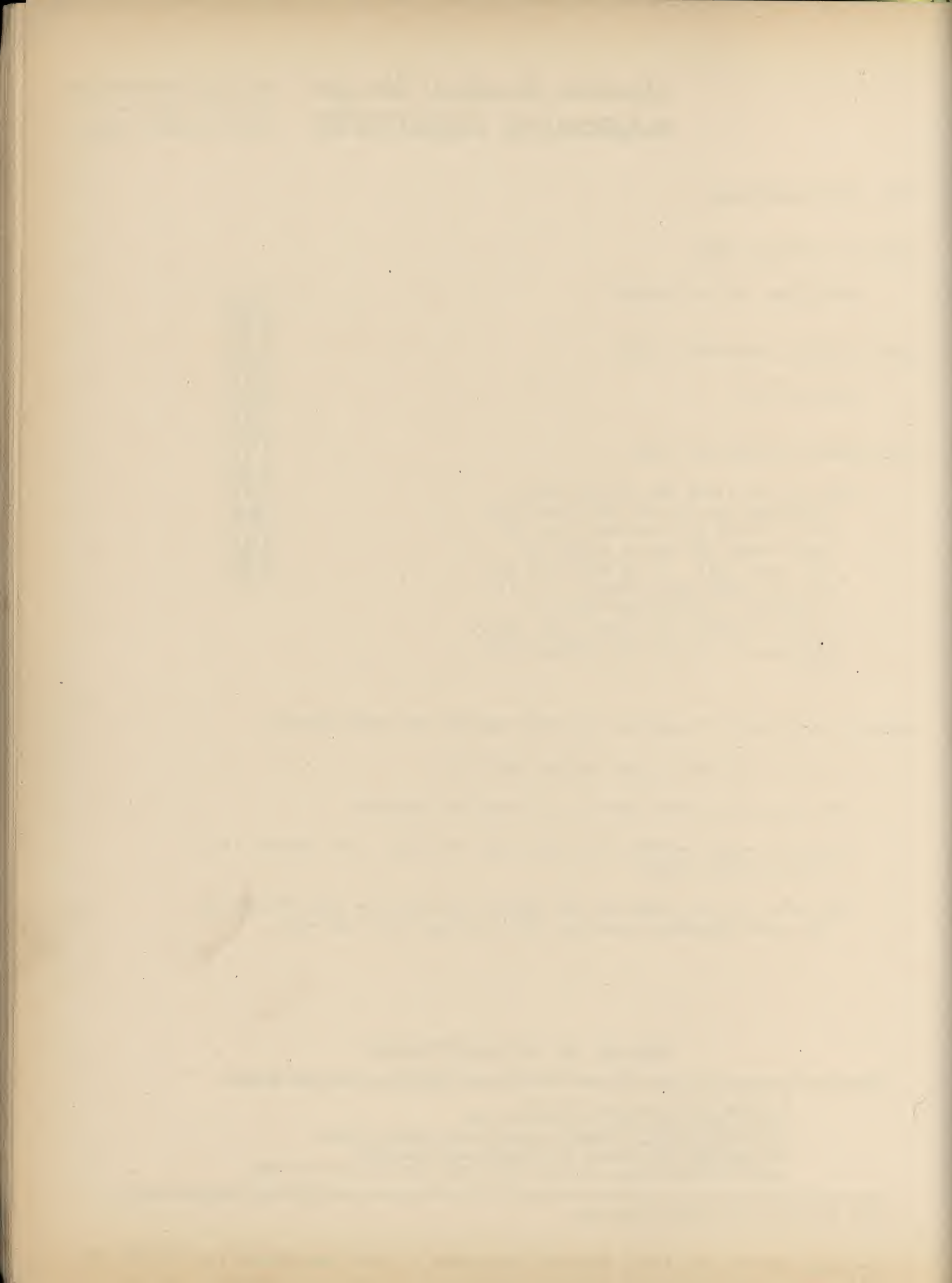
It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.





# *Another Practical Use for* **MASONITE PRODUCTS**

Building Construction  
Sound Reduction -  
Floors

USE: Sound deadening under finished floors

MASONITE MATERIAL USED:

Cell-U-Blanket

OTHER MATERIAL FREQUENTLY USED:

Mineral Wool



HOW MASONITE PRODUCT IS USED:

It is laid between the sleepers above the sub-floor in the same way that Cell-U-Blanket is laid between the studs in a wall. The flange is usually stapled or nailed on the face of the sleepers before the finished floor is laid down.

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Cellufoam insulation has a high acoustical efficiency (.60 in the range of low pitched notes to over .80 for high pitched notes).

This will also tend to keep the floors much warmer by preventing and greatly reducing the transmission of heat at the floor level.

## **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

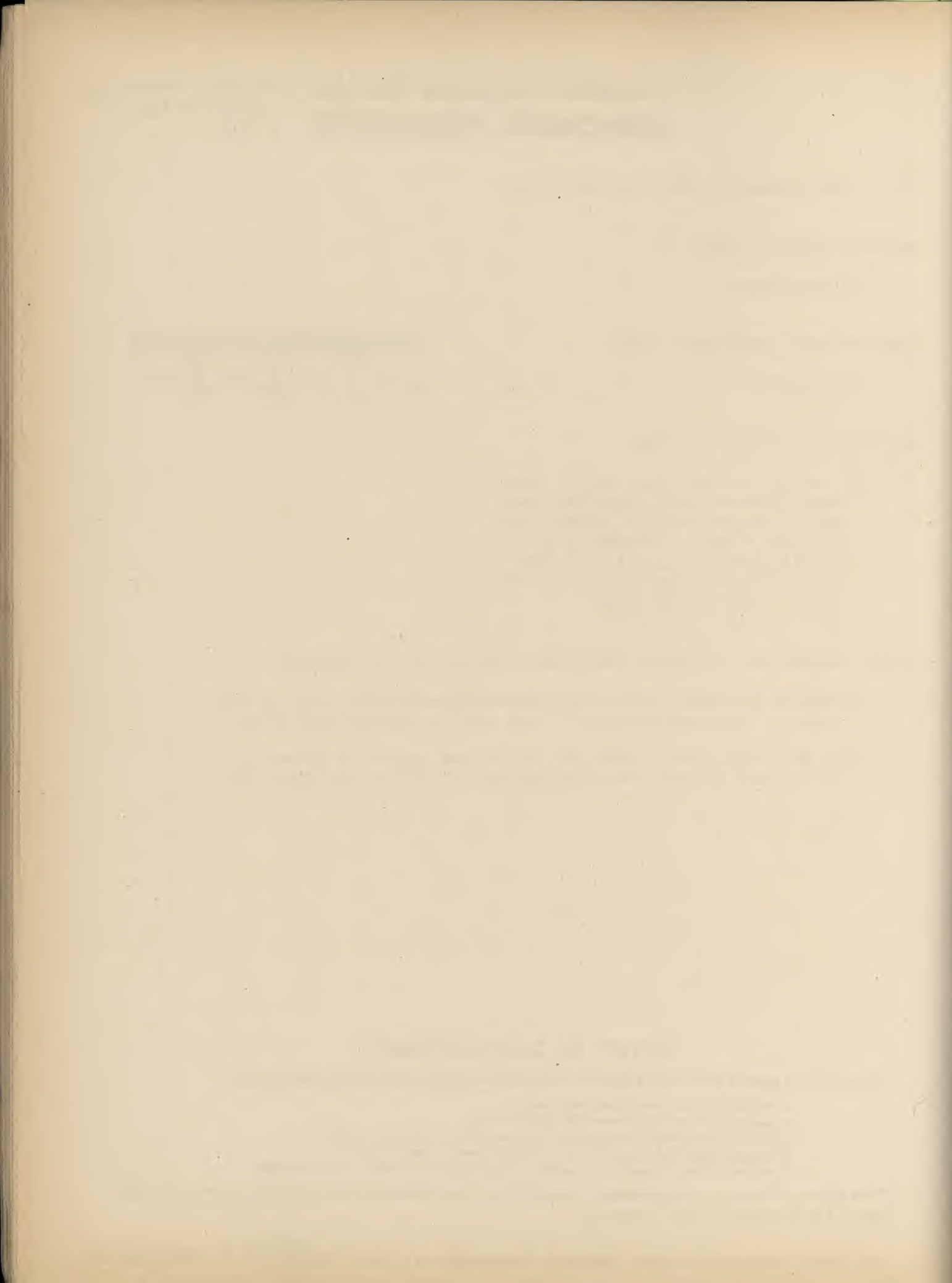
It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.





# *Another Practical Use for* **MASONITE PRODUCTS**

Building Construction  
Acoustical Treatment -  
Elevator Machinery

USE: Means of reducing noise from elevator  
machinery

## MASONITE MATERIAL USED:

Cell-U-Blanket, Cellufoam

## OTHER MATERIAL FREQUENTLY USED:

Acoustical tile, other sound correction  
materials

## HOW MASONITE PRODUCT IS USED:

Cell-U-Blanket or Cellufoam is glued directly to the masonry walls usually found in the penthouse around the elevator machinery. As an additional protection, frame work of light lumber is put over the Cellufoam or Cell-U-Blanket at intervals so that workmen will not be so likely to injure the acoustical material and pull it out of place.

## SPECIAL ADVANTAGES OF MASONITE PRODUCT FOR THIS PURPOSE:

It has a high coefficient of noise reduction. Therefore, it makes an efficient acoustical material.

It is easily applied to ordinary masonry walls without any preparation, using merely adhesives. This is because the material is so light there is practically no strain on it.

The cost is quite low. It is much less than that of ordinary acoustical material used for the same purpose.

Cellufoam or Cell-U-Blanket used in this way pays for itself in the reduction of heating cost.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

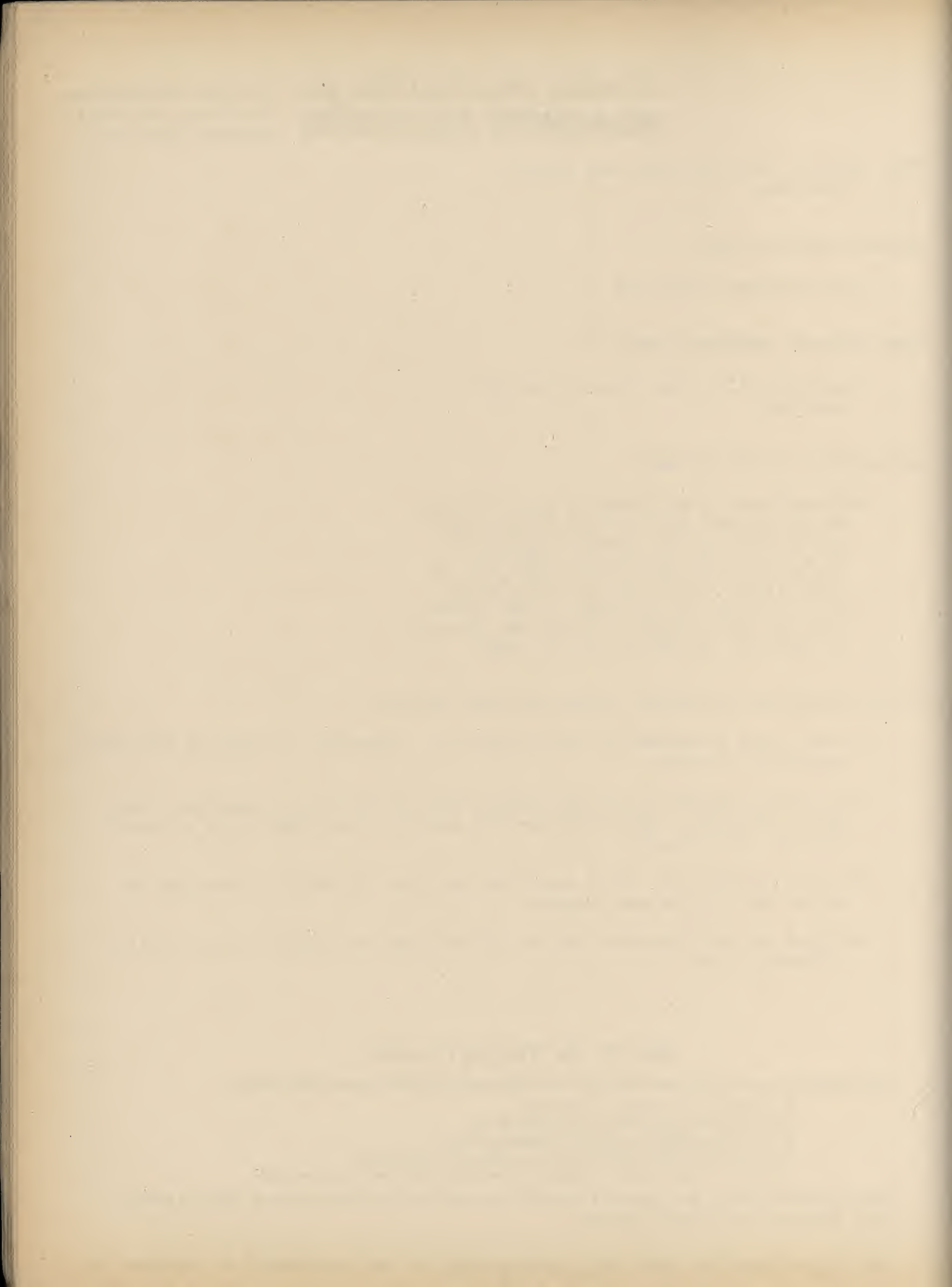
It has high thermal efficiency—K factor of .26.

It has high acoustical properties—coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.





# *Another Practical Use for* **MASONITE PRODUCTS**

Building Construction  
Sound Reduction -  
Plumbing Pipes

USE: Sound reduction from plumbing pipes

MASONITE MATERIAL USED:

Cell-U-Blanket

OTHER MATERIAL FREQUENTLY USED:

Hair Felt

HOW MASONITE PRODUCT IS USED:

Cell-U-Blanket is wrapped around the pipes and tied with wire or metal strapping. Sealing walls are then finished around the pipe.



SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Cell-U-Blanket and Cellufoam have high sound absorption value.

It costs less than other insulation materials for the purpose.

The vapor barrier prevents condensation in the insulation.

## **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

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# Another Practical Use for **MASONITE PRODUCTS**

Building Construction  
Ventilation --  
Duct Coverings

USE: Insulation covering for ducts

## MASONITE MATERIAL USED:

Scrim-backed Cellufoam, flame-proofed

## OTHER MATERIAL FREQUENTLY USED:

Hair insulation, metal insulation

## HOW MASONITE PRODUCT IS USED:

Scrim-backed Masonite can be bent directly around the ducts or can be applied as shown with the joint at two corners or four corners, or wrapped completely around the duct with only one joint.

After the insulation is applied, it is frequently covered with muslin or canvas and painted.

\* See Engineering Drawings AE-183-A

## SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Its extreme light weight reduces the number of supporting members needed.

Practically any adhesive will hold Cellufoam to the ducts without the necessity of wires or other types of strapping.

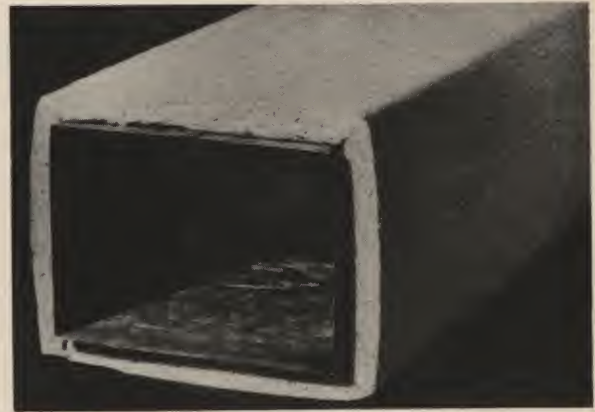
Scrim-backed Cellufoam is a low cost insulation which can be wrapped around ducts without breaking. This reduces labor cost. On big jobs labor costs can be further reduced from 30% to 40% by using Cellufoam cut to size at the Masonite plant. There is no charge for cutting or for waste.

Flame-proofed Cellufoam will not support combustion.

It is a low-cost insulation which can be wrapped around the corners without the loss of insulation value at the corners.

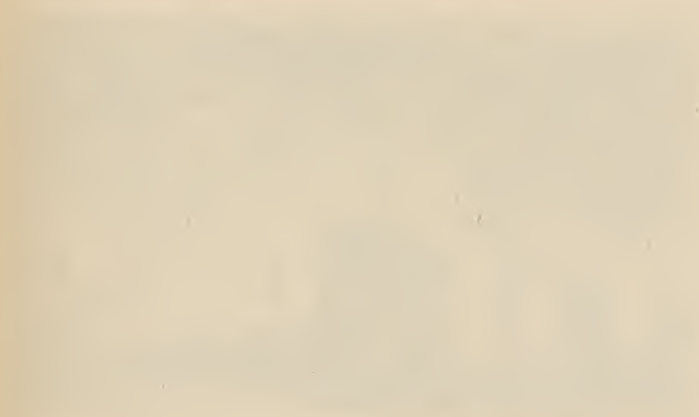
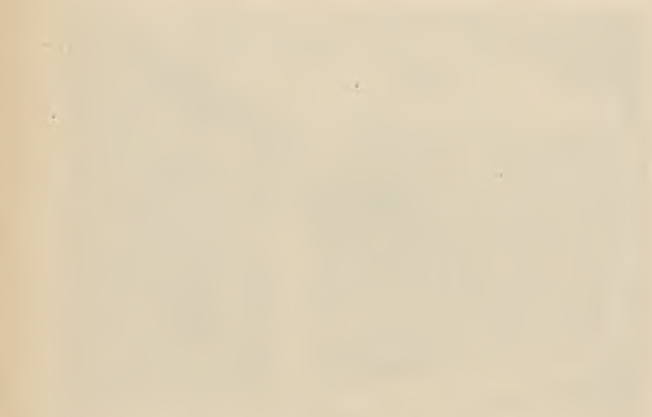
Cellufoam has a high insulation value, a "K" factor of .26.

Cellufoam will not settle or sag. It stays in place.



Picture courtesy of  
Northwestern Technological Institute,  
Evanston, Illinois

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY



The following is a list of the names of the persons who have been elected to the office of the President of the University of Chicago for the year 1900-1901. The names are listed in alphabetical order of their surnames.

1. Mr. John D. Rockefeller  
2. Mr. James D. Aronson  
3. Mr. William H. Aronson  
4. Mr. Charles F. Aronson  
5. Mr. John H. Aronson  
6. Mr. John H. Aronson  
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100. Mr. John H. Aronson



SPECIFICATION FOR SUGGESTED APPLICATION  
FOR CELLUFOAM DUCT COVERING

COLD DUCTS

Apply Cellufoam Duct Insulation to outside area of duct with Airtex X-30 Asphalt Adhesive or similar product. Adhesive to be thinned to brushing consistency with water if necessary. Brush a thin coating of adhesive to rough surface of Cellufoam and to duct area to be covered. Allow time for adhesive to become tacky before applying. Seal joints with 3" light canvas strip adhered with cold water paste. Seal thoroughly around hangers or other projections from duct with adhesive. Wrap exposed ducts with 6 or 8 oz. canvas adhered over entire area with cold water paste. Lap all joints at least 1". Omit the 3" canvas strips on Cellufoam where canvas covering is used. Paint canvas with two coats of white lead and oil. Canvas covering is strongly recommended where a condition of high relative humidity is involved.

COMBINATION DUCTS

Proceed as above, except use adhesive such as Airtex X-20 Fibrous Adhesive instead of one similar to Airtex X-30.

SPECIAL NOTE

Be sure to soak clean brush in cool or cold water for 15 to 20 minutes before using.

RECOMMENDATION FOR SUGGESTED APPLICATION  
FOR CELLULOSIC FILM COVERING

COAT WEIGHT

Apply Cellulose Film Covering to various areas of coat weight 1-50  
inches adhesive to surface product. Adhesive to be removed by brushing  
completely with water. When a thin coating of adhesive is  
rough and lumpy it indicates that the coat is too heavy. Allow film  
for adhesive to become tacky before applying. Coat joints with 5% light  
catalyst and up adhesive with cold water. Coat thoroughly dried  
before or after application from heat with adhesive. With exposed joints  
with 5 to 10% catalyst added over entire area with cold water.  
Can also be heated at 100° F. Coat the 1% catalyst with on Cellulose where  
catalyst mixture is used. Taint catalyst with two coats of white lead and  
oil. Catalyst covering is strongly recommended where a condition of high  
relative humidity is involved.

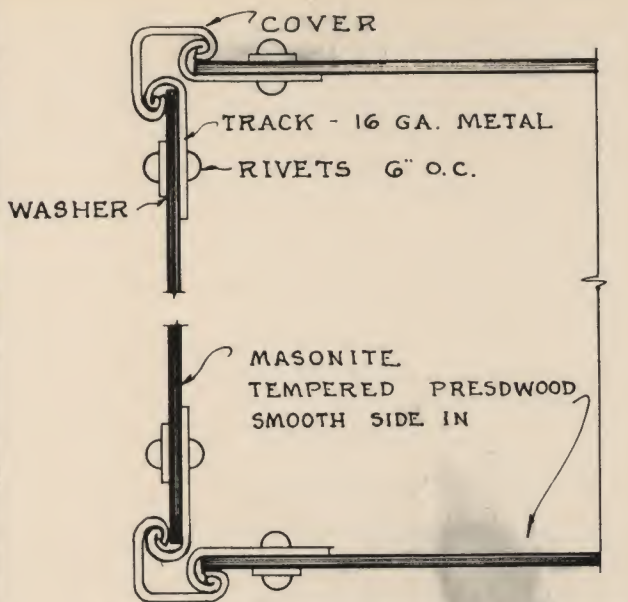
PREPARATION OF COAT

Prepared as above, except the adhesive should be added 1-50 percent relative  
humidity of the solvent to 1-50.

STANDARD COAT

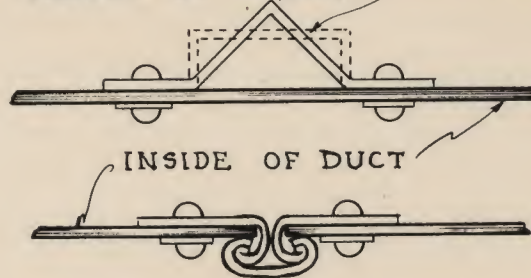
As above in some cases where it may be used where the 1% is not required  
before using.



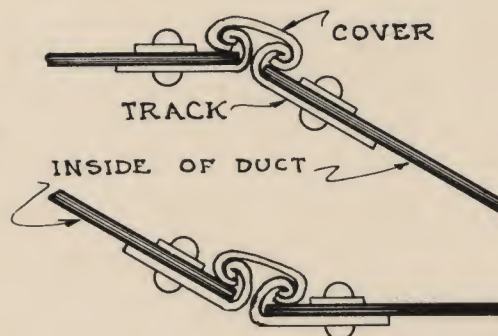


**SECTION THROUGH DUCT**

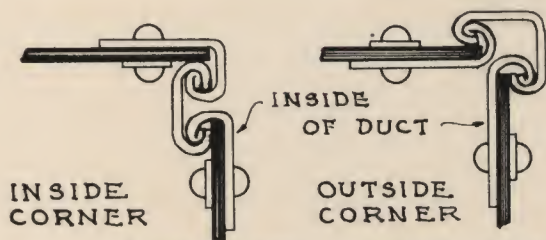
16 GA. SHEET METAL FORMED TO SHAPES AS SHOWN



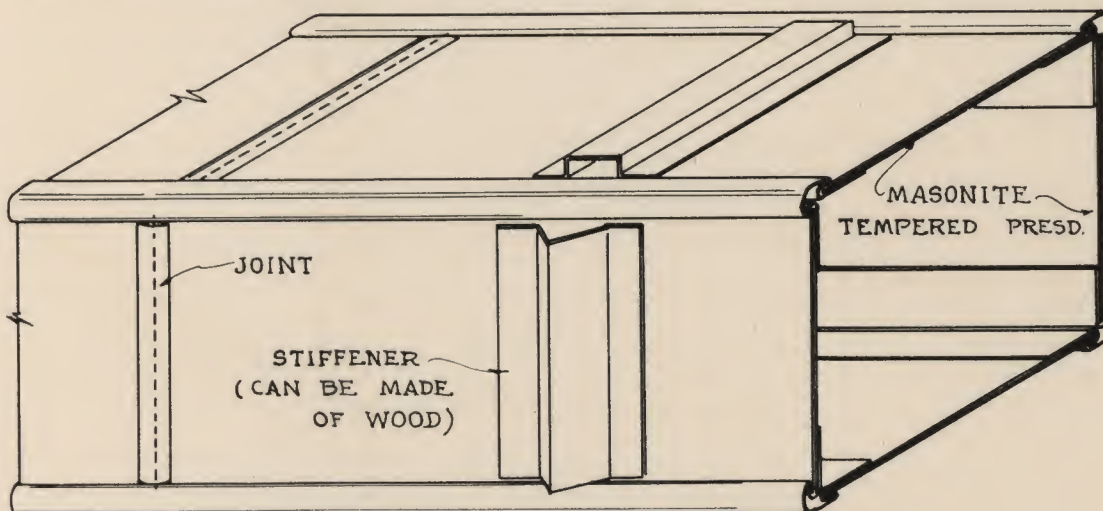
**STIFFENER & JOINT DETAIL**



**JOINT DETAILS AT ELBOWS**



**CORNER DETAILS**



**PARTIAL VIEW OF DUCT SHOWING TRACK & COVER METHOD OF ASSEMBLY**  
RIVETS NOT SHOWN

MASON

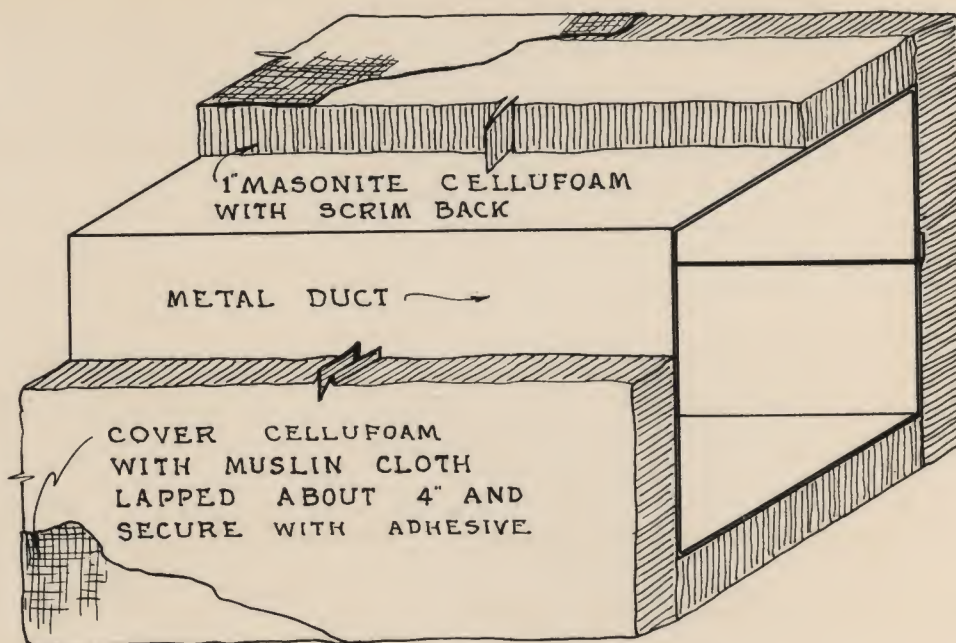


CLOTH COVER

METAL DUCT

MASONITE  
CELLUFOAM  
WITH SCRIM BACK

SECTION



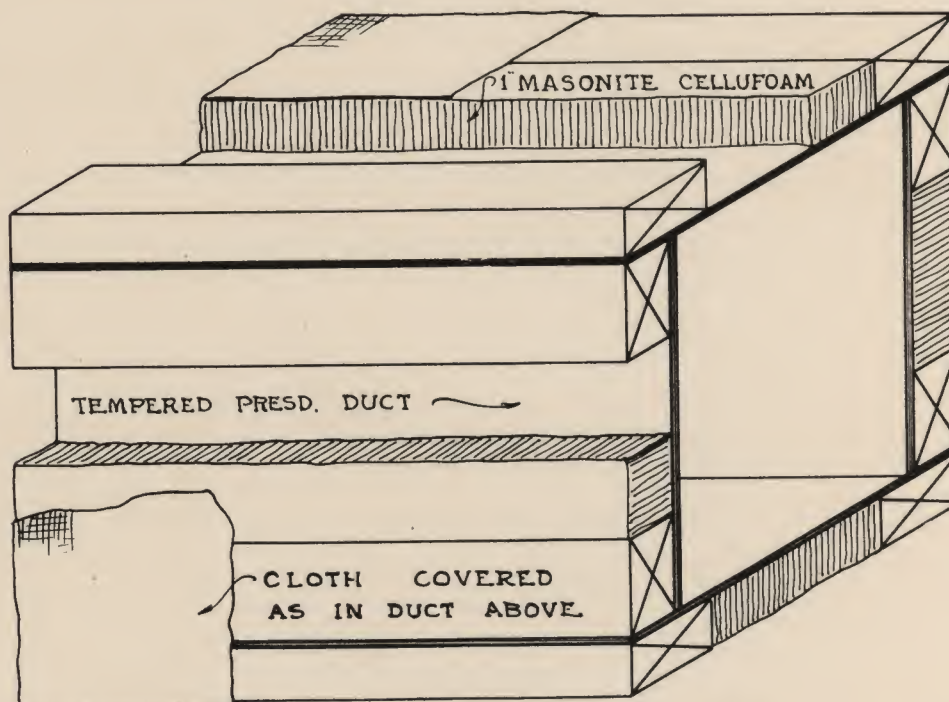
**METAL DUCT COVERED WITH  
MASONITE CELLUFOAM INSULATION**

CLOTH COVER

MASONITE  
TEMPERED  
PRESWOOD  
SMOOTH SIDE IN

1" MASONITE  
CELLUFOAM  
WITH SCRIM BACK

SECTION



**MASONITE DUCT COVERED WITH  
MASONITE CELLUFOAM INSULATION**

**ITE DUCTS**

**MASONITE CORPORATION**

111 W. Washington Street, Chicago, Illinois

Engineering Department • Drawing No. AE-183-A



# Another Practical Use for **MASONITE PRODUCTS**

Building Construction  
Ventilation -  
Duct Insulation  
Round Ducts

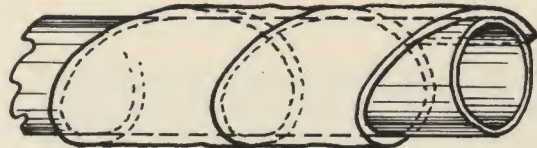
USE: Insulation around round ducts

MASONITE MATERIAL USED:

Cellufoam

OTHER MATERIAL FREQUENTLY USED:

Various insulating materials



HOW MASONITE PRODUCT IS USED:

For round ducts, Cellufoam is cut in long strips and cemented to the duct in spiral form much as a bandage except that the edges touch each other instead of lapping. This construction eliminates all nailing, wrapping with string or wire, or other means of fastening the insulation to the pipe. End joints are taped.

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Cellufoam goes up in spiral form with less labor than other forms of insulation.

It requires less material for attaching.

Because it is so light (weighing about 1 1/2 lbs. per cubic foot or 2 ounces per square foot, 1" thick), smaller supports can be used for the duct than if heavier insulation were specified.

Scrim-back Cellufoam is about the only type of efficient and inexpensive insulation which can be wrapped in this way around a pipe. It is flexible, but will not break.

It may be flame-proofed so it will not support combustion.

Scrim-back Cellufoam when applied in this way can be painted directly with no canvas coating over the surface. This saves both labor and material.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1 1/2 pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.





## *Another Practical Use for* **MASONITE PRODUCTS**

Building Construction  
Ventilating Ducts -  
Sound Absorption

USE: A sound absorbent material inside ventilating ducts.

### MASONITE MATERIAL USED:

Cellufoam, flame-proofed

### OTHER MATERIAL FREQUENTLY USED:

Board Insulation, cork, mineral wool

### HOW MASONITE PRODUCT IS USED:

To reduce noise and roar in blower ducts, line the five or ten feet of the duct nearest the blower with Cellufoam, scrim side to the center.

The Cellufoam may be cut to size and attached securely with bolts or other positive fasteners.

Note: Flame-proofed Cellufoam is preferable for duct lining because it will not support combustion. In some cities its use is barred by building codes that require fire-proof duct lining.

### SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

The sound absorption qualities of Cellufoam are so high that less acoustical material is needed to stop roaring.

Its semi-rigid consistency makes it easy to apply with ordinary adhesives. No special attaching devices are needed. None will blow away.

It goes in place with a minimum of labor because it can be cut to size or can be cut with strong scissors.

Its even flat surface offers very slight resistance to air passage.

### WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but  $1\frac{1}{2}$  pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.



Picture courtesy of  
Selwyn Theater, Chicago, Ill.

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## Part II

### A Few Examples of Cellufoam and Cell-U-Blanket Uses in Industry and Industrial Products

---

Factory Equipment --	Machinery; Sound reduction Material Handling; Food containers Material Processing; Hot box, drier
Furniture --	Chairs and Seats; Pads for chairs, seats, benches Chairs and Seats; Pads for bleacher seats Phone Booths; Accoustical treatment
Marine --	Small Boats; Sound reduction, engine room Small Boats; Sound reduction, roof of cabin
Product Manufactured --	Appliances; Milk coolers Appliances; Picnic baskets, insulated Appliances; Refrigerators, beverage cooler Appliances; Refrigerators, insulation Appliances; Refrigerators, sound absorption around motors Civilian Defense; Blackout panels, padding for glass windows Electrical Equipment; Radios, phonographs, juke boxes Farm; Poultry supplies, incubator insulation Shipping Supplies; Blanket for use in shipping truck
Transportation --	Airplane, Accoustical treatment Cars or Trucks; Dash insulation Railroad Cars; Portable refrigerators Railroad Cars; Refrigerators cars Railroad Cars and Busses; Roof and sidewall insulation Trailers, House; Insulation Trucks, Insulation

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## *Another Practical Use for* **MASONITE PRODUCTS**

Factory Equipment  
Machinery -  
Noise Reduction

USE: As sound reducing material around  
machines

MASONITE MATERIAL USED:

Cellufoam

OTHER MATERIAL FREQUENTLY USED:

Acoustical tile or board

HOW MASONITE PRODUCT IS USED:

A shelter is built of wood large enough to enclose three sides and the top of the machine. This shelter is then lined with Cellufoam attached by adhesives, staples, or washers around the head of nails or tacks.



SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

The reduction of sound from machines will increase the operators' efficiency.

It is easily cut to fit with ordinary, strong scissors.

It is so light it can be held in place with ordinary adhesives.

Because it is semi-rigid, no support is needed for the face. This saves cost.

Its cost is much less than that of other sound control material with anywhere near as high efficiency.

### **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

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## *Another Practical Use for* **MASONITE PRODUCTS**

Factory Equipment  
Material Handling  
Food Containers -  
Insulated for Hot and  
Cold Foods

USE: Insulated food containers for carrying  
hot and cold food. Used by Army,  
Navy, factories, hospitals, etc.

### MASONITE MATERIAL USED:

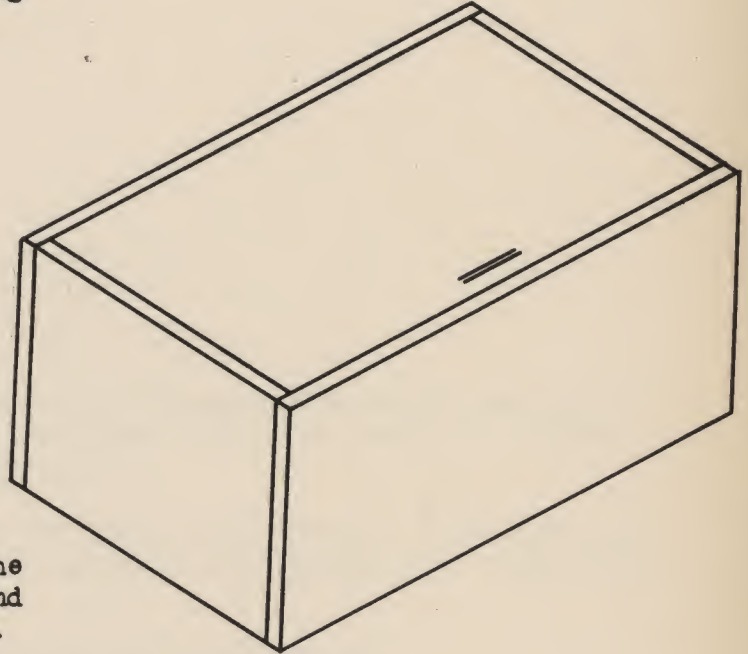
Cellufoam

### OTHER MATERIAL FREQUENTLY USED:

Mineral insulation, wood bark,  
cork, etc.

### HOW MASONITE PRODUCT IS USED:

It is cut to size and slipped into the  
space provided between the inner and  
outer walls of the food containers.



### SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

It makes a lighter container because Cellufoam is so light.

It saves labor. No fluffing is required, and neither is cutting or packing down.  
Cellufoam comes cut to the exact shape.

It saves material cost. There is no charge for cutting to the exact size and  
shape needed, and there is no charge for waste.

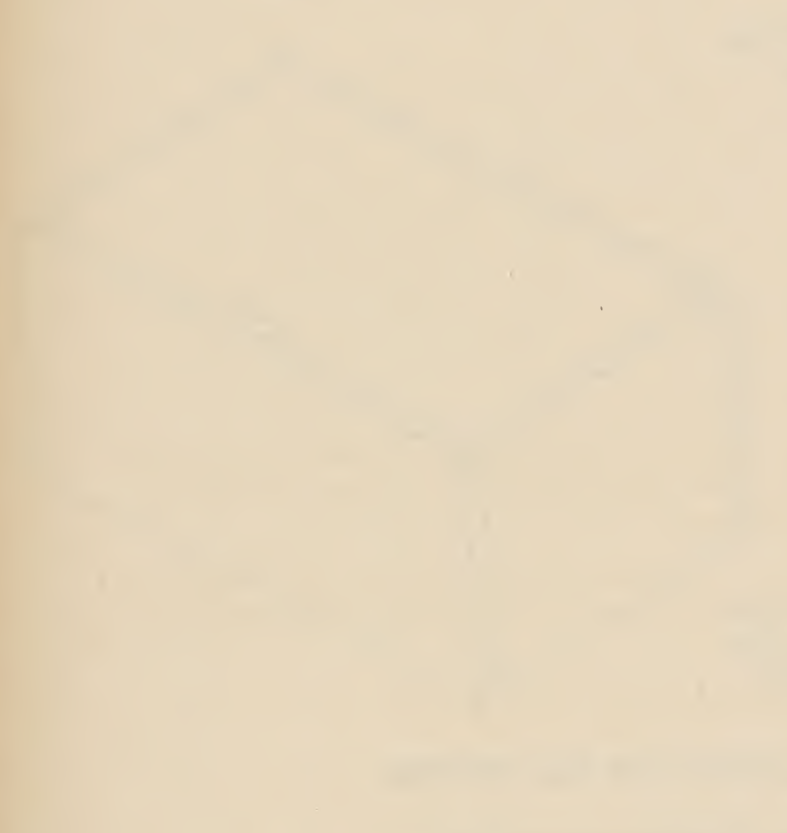
It is non-irritating to workmen. There is nothing about Cellufoam which can ir-  
ritate workers' skins or injure their lungs.

It is uniform insulation. Cellufoam comes in semi-rigid sheets. When put in  
place there can be no gaps, and no place where the insulation is packed so  
tight that its efficiency is spoiled.

It will not rot or disintegrate. Even if it were soaked in a flood, it would  
dry out and have practically the same high insulation qualities.

Cellufoam cut to size is not dusty.

THE HISTORY OF THE  
CITY OF BOSTON



The history of the city of Boston, from its first settlement in 1630 to the present time. The city was founded by a group of Puritan settlers who came from England in search of religious freedom. They established a colony on the eastern shore of Massachusetts Bay, and the city grew rapidly. In 1630, the city had a population of about 1,000 people. By 1690, the population had increased to about 10,000. The city was the center of the Puritan movement in New England, and it played a leading role in the American Revolution. In 1773, the city was the site of the Boston Tea Party, a protest against British taxation. The city was the first to declare its independence from Britain in 1776. The city has since become one of the most important cities in the United States, and it is known for its rich history and culture.



# *Another Practical Use for* **MASONITE PRODUCTS**

Factory Equipment  
Material Processing -  
Hot Box - Drier

USE: Hot box, drier, or oven

## MASONITE MATERIAL USED:

Cellufoam for insulation

## OTHER MATERIAL FREQUENTLY USED:

Sheet metal for walls and various  
forms of insulation

## HOW MASONITE PRODUCT IS USED:

Double wall cabinets are built with Tempered Presdwood for inside and outside walls, framed over 2' x 4' studs. The space between the studs is filled with an adequate thickness of Cellufoam.

Three inches of Cellufoam will allow the cabinet to be kept at 200° Fahrenheit with the outside wall merely warm to the touch at ordinary room temperature.

## SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

It has a high insulation value (.26).

It will not settle or sag in the wall -- it stays put.

It is easily applied because it comes in widths to fit between studs.

It will easily stand temperatures up to 200° Fahrenheit.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

REPORT OF THE  
COMMISSIONERS OF THE  
LAND OFFICE

FOR THE YEAR  
1887

CHICAGO  
PUBLISHED BY THE  
UNIVERSITY OF CHICAGO PRESS

1888



## Another Practical Use for **MASONITE PRODUCTS**

Furniture  
Chairs and Seats -  
Pads for Chairs, Seats,  
or Benches

USE: Pad in chairs, seats or benches  
with thin upholstery

### MASONITE MATERIAL USED:

Cellufoam

### OTHER MATERIAL FREQUENTLY USED:

Moss, felt, etc.

### HOW MASONITE PRODUCT IS USED:

It is a cut-to-size pad inserted  
above the chair seat or bench  
and below the upholstery cover.  
It is held in place merely by  
the cover.

The pad should be rolled to approxi-  
mately  $\frac{2}{3}$  of its original thick-  
ness, and built up to about twice  
the thickness desired for the  
cushion when finished.



Picture courtesy of  
L. Harter, Indianapolis, Ind.

This method is most practical when a finished cushion of 1" or less is desired.

### SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Cellufoam is a resilient material up to its elastic limit.

Because of its semi-rigid form, it has uniform thickness. There can be no lumps  
and no gaps. It will not be pushed aside, out of place.

It reduces the labor cost because it comes cut to the exact shape.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but  $1\frac{1}{2}$  pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insula-  
tion. It is the core of Cell-U-Blanket.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

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# Another Practical Use for **MASONITE PRODUCTS**

Furniture  
Chairs and Seats  
Pads for Bleachers

USE: Pads for bleacher seats

MASONITE MATERIAL USED:

Cellufoam

OTHER MATERIAL FREQUENTLY USED:

Cardboard

HOW MASONITE PRODUCT IS USED:

Cellufoam cut to a convenient size is inserted in a Kraft envelope to make it more attractive, to protect the edges, and to keep the pad dry in case of rain.

Sometimes the face of the envelope is used for an advertising message.

The pad is usually sold to sports spectators by students or professional hawkers at prices ranging from 10¢ to 15¢ each.



Picture courtesy of  
Asbestos Supply Co., Wausau, Wis.

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

It makes a comfortable pad at quite a low cost.

It is good in all kinds of weather when used as described above.

Because it comes cut to size, it can be inserted in envelopes with a minimum of labor cost.

Because it has uniform thickness, the pad will not be lumpy.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

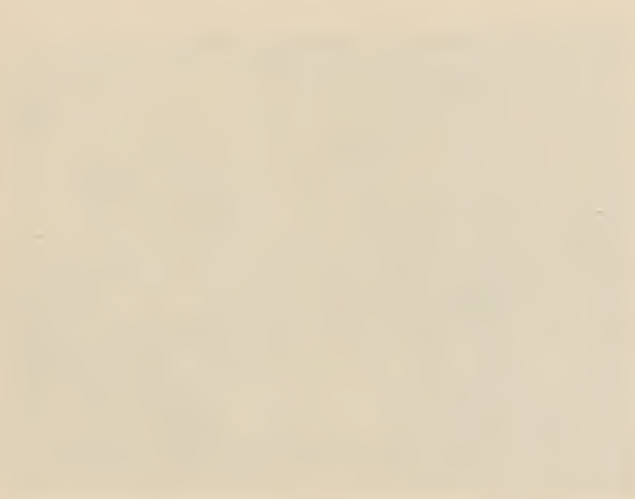
It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

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## *Another Practical Use for* **MASONITE PRODUCTS**

Furniture  
Phone Booth -  
Acoustical Treatment

USE: Phone booth -- walk-in type with no door.

### MASONITE MATERIAL USED:

Cellufoam

### OTHER MATERIAL FREQUENTLY USED:

Mineral wool

### HOW MASONITE PRODUCT IS USED:

The inner surface of the walk-in phone booth is a durable substance such as hardboard or metal which has been perforated with many holes.

Behind the perforated surface is a series of thick pads of Cellufoam to absorb the sound vibrations that reach it.

The outer face of the walk-in booth is usually of attractive hardboard or veneer. The outer and inner faces are usually separated by furring strips.

Note: This method developed and patented by Burgess Laboratories, Chicago, Illinois.

### SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

It has excellent sound absorption qualities, particularly for the higher pitched sounds. (Coefficient of over .80 for frequencies above 1024, when nailed to furring strips.)

It is economical because it comes cut to size with no charge for cutting or for waste.

It goes in place with low labor cost because the workman does not have to fluff it out or fit it in. It is cut to shape.







# Another Practical Use for **MASONITE PRODUCTS**

Furniture  
Chairs and Seats  
Pads for Bleachers

USE: Pads for bleacher seats

MASONITE MATERIAL USED:

Cellufoam

OTHER MATERIAL FREQUENTLY USED:

Cardboard

HOW MASONITE PRODUCT IS USED:

Cellufoam cut to a convenient size is inserted in a Kraft envelope to make it more attractive, to protect the edges, and to keep the pad dry in case of rain.

Sometimes the face of the envelope is used for an advertising message.

The pad is usually sold to sports spectators by students or professional hawkers at prices ranging from 10¢ to 15¢ each.

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

It makes a comfortable pad at quite a low cost.

It is good in all kinds of weather when used as described above.

Because it comes cut to size, it can be inserted in envelopes with a minimum of labor cost.

Because it has uniform thickness, the pad will not be lumpy.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.



Picture courtesy of  
Asbestos Supply Co., Wausau, Wis.





## Another Practical Use for **MASONITE PRODUCTS**

Marine  
Small Boats  
Sound Reduction -  
Engine Room

**USE:** As sound reduction treatment around the engine of cabin cruiser

### **MASONITE MATERIAL USED:**

Cellufoam

### **OTHER MATERIAL FREQUENTLY USED:**

Felt, cork, etc.

### **HOW MASONITE PRODUCT IS USED:**

Cellufoam is inserted in the side of the boat opposite the engine, inside of bulkheads, beside the engine, and inside the hatch over the engine.

### **SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:**

It has a high sound absorbent power -- noise reduction coefficient of 0.65.

It fits into waste space -- between the ribs.

It can be easily cut by the local workman -- with scissors.

It will not disintegrate if soaked -- and when dried out it will have the original properties.



Picture courtesy of  
Elco Boat Corporation, Bayonne, N. J.

## **WHAT IS CELLUFOAM?**

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THE HISTORY OF THE  
CITY OF BOSTON

FROM 1630 TO 1830



By SAMUEL JOHNSON, Esq.  
of the Middle Temple, London.

Printed by S. KNEELAND, at the  
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## Another Practical Use for **MASONITE PRODUCTS**

Marine  
Small Boats  
Sound Reduction -  
In Roof of Cabin

USE: As acoustical treatment for ceiling of cabin and of open cockpit of cruisers

MASONITE MATERIAL USED:

Cellufoam

OTHER MATERIAL FREQUENTLY USED:

Acoustical tile

HOW MASONITE PRODUCT IS USED:

Sheets of Cellufoam are inserted between the rafters of the roof over the open cockpit. It is held in place by open meshed fish-netting which is stapled to the edges of the rafters.



Picture courtesy of  
Elco Boat Corporation, Bayonne, N. J.

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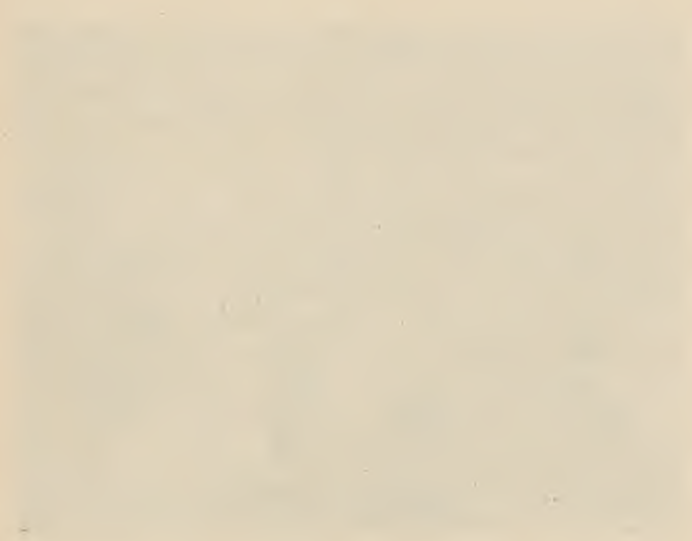
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THE HISTORY OF THE  
CITY OF BOSTON



The first settlement in Boston was made in 1630, when a group of Puritans, led by John Winthrop, arrived from England. They established a colony on the site of the present city, and the town grew rapidly. In 1639, the first public school was founded, and in 1646, the first library was organized. The city continued to expand, and in 1692, it was incorporated as a city. The American Revolution began in 1775, and Boston played a central role in the struggle for independence. The city was the site of the Battle of the Clouds, the Siege of Fort Mifflin, and the Boston Tea Party. After the war, the city continued to grow, and in 1822, it was incorporated as a city. The city has since become one of the most important centers of commerce and industry in the United States.

The city of Boston has a rich and varied history, and its development has been shaped by many factors. The city's location on the coast, its access to the sea, and its proximity to the Atlantic Ocean have all played a role in its growth. The city's early history is marked by the arrival of the Puritans, and the city's subsequent development has been shaped by the American Revolution, the Industrial Revolution, and the rise of the city as a major center of commerce and industry. The city's history is a testament to the resilience and spirit of its people, and it is a source of pride for all who call it home.



## Another Practical Use for **MASONITE PRODUCTS**

Product Manufactured  
Appliances  
Coolers -  
Milk

USE: Insulated container for milk bottles  
left at the back door

### MASONITE MATERIAL USED:

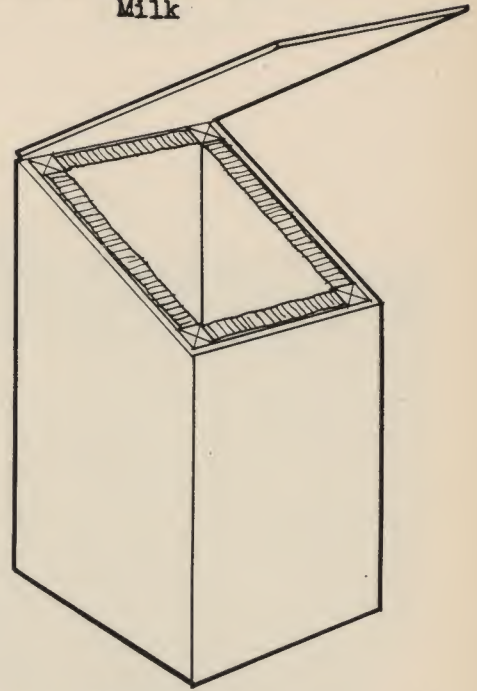
Cellufoam

### OTHER MATERIAL FREQUENTLY USED:

Wood, board insulation, etc.

### HOW MASONITE MATERIAL IS USED:

Cellufoam is cut to size and slipped  
between the inner and outer walls.



### SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Used in this way by  
Majestic Co., Huntington, Indiana

It makes a lighter container because Cellufoam is so light.

It saves labor. No fluffing is required, and neither cutting nor packing down is required. Cellufoam comes cut to the exact shape.

It saves material cost. There is no charge for cutting to the exact size and shape needed, and there is no charge for waste.

It is non-irritating to workmen. There is nothing about Cellufoam which can irritate workers' skins, or injure their lungs.

It is uniform insulation. Cellufoam comes in semi-rigid sheets. When put in place there can be no gaps, and no place where the insulation is packed so tight that its efficiency is spoiled.

It will not rot or disintegrate. Even if it were soaked in a flood, it would dry out and have practically the same high insulation qualities.

Cellufoam cut to size is not dusty.

## WHAT IS CELLUFOAM?

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It weighs but 1½ pounds per cubic foot.

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THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY



THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
CHICAGO, ILLINOIS 60637  
U.S.A.  
TEL: (312) 937-1234  
FAX: (312) 937-1234  
E-MAIL: chem@uchicago.edu  
WWW: www.uchicago.edu/chem



## *Another Practical Use for* **MASONITE PRODUCTS**

Product Manufactured  
Appliances  
Picnic Basket -  
Insulated

USE: Insulated picnic basket

MASONITE MATERIAL USED:

Cellufoam

OTHER MATERIAL FREQUENTLY USED:

Mineral wool, cork, etc.

HOW MASONITE PRODUCT IS USED:

Cellufoam cut to size is slipped between the inner and outer shell. It is usually held in place merely by the wall on each side.



SPECIAL ADVANTAGES OF MASONITE CELLUFOAM  
PRODUCT FOR THIS PURPOSE:

It makes a lighter container because Cellufoam is so light.

It saves labor. No fluffing is required, and neither is cutting or packing down. Cellufoam comes cut to the exact shape.

It saves material cost. There is no charge for cutting to the exact size and shape needed, and there is no charge for waste.

It is non-irritating to workmen. There is nothing about Cellufoam which can irritate workers' skins or injure their lungs.

It is uniform insulation. Cellufoam comes in semi-rigid sheets. When put in place there can be no gaps, and no place where the insulation is packed so tight that its efficiency is spoiled.

It will not rot or disintegrate. Even if it were soaked in a flood, it would dry out and have practically the same high insulation qualities.

Cellufoam cut to size is not dusty.

### **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

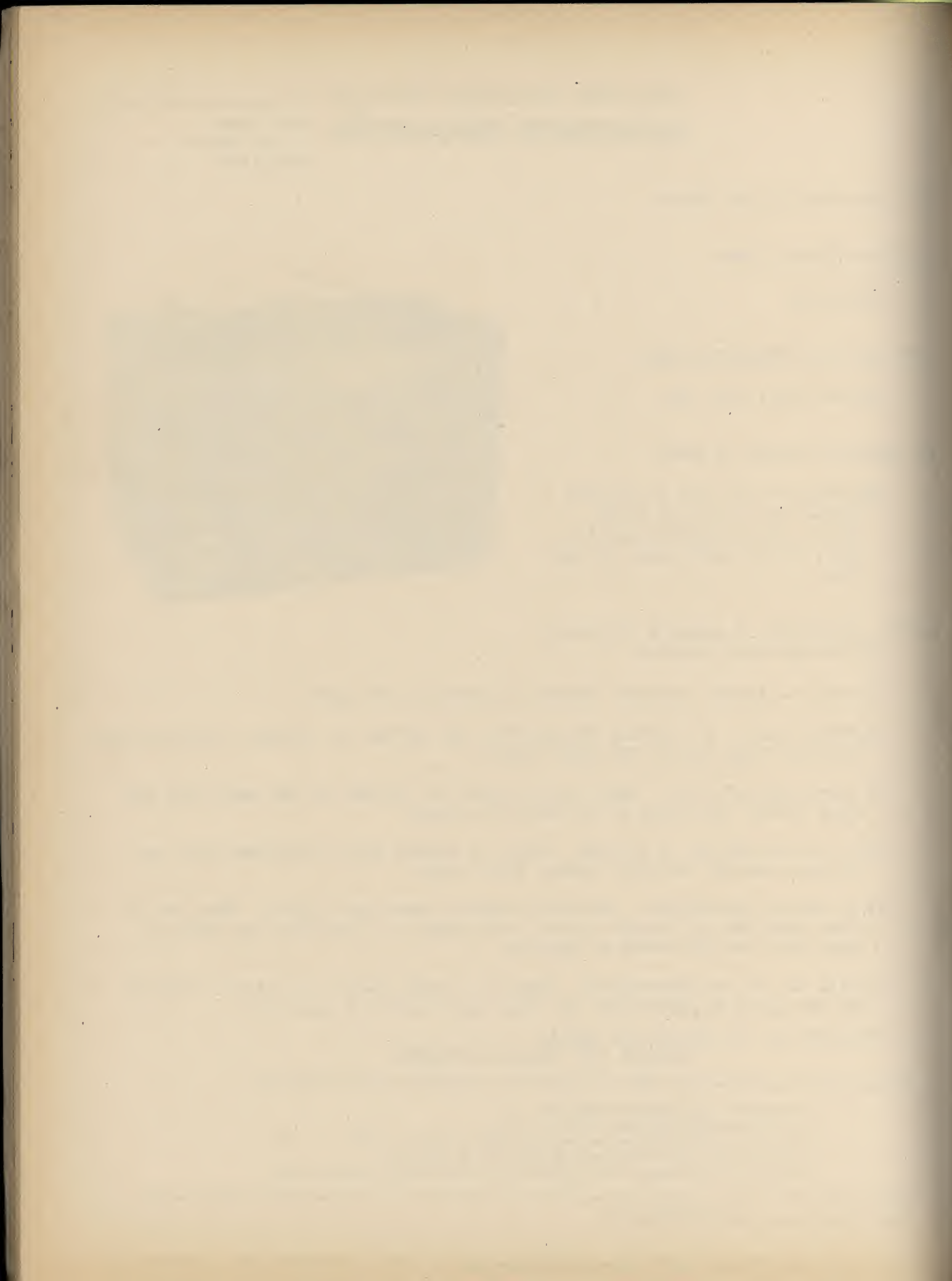
It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.





# *Another Practical Use for* **MASONITE PRODUCTS**

Product Manufactured  
Refrigerator Appliances -  
Bottle Coolers

USE: Bottle coolers and vending machines

## MASONITE MATERIAL USED:

Cellufoam

## OTHER MATERIAL FREQUENTLY USED:

Mineral wool, wood bark, board insulation, etc.

## HOW MASONITE PRODUCT IS USED:

Pieces of Cellufoam, accurately cut to size are slipped into the space between the outer and inner walls.

## SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

It makes a lighter container because Cellufoam is so light.

It saves labor. No fluffing is required, and neither is cutting or packing down. Cellufoam comes cut to the exact shape.

It saves material cost. There is no charge for cutting to the exact size and shape needed, and there is no charge for waste.

It is non-irritating to workmen. There is nothing about Cellufoam which can irritate workers' skins or injure their lungs.

It is uniform insulation. Cellufoam comes in semi-rigid sheets. When put in place there can be no gaps, and no place where the insulation is packed so tight that its efficiency is spoiled.

It will not rot or disintegrate. Even if it were soaked in a flood, it would dry out and have practically the same high insulation qualities.

Cellufoam cut to size is not dusty.



Picture courtesy of  
E. B. Muzzarelli and Company,  
Kansas City, Missouri

THE JOURNAL OF THE  
ROYAL ANTHROPOLOGICAL INSTITUTE  
VOLUME 100  
PART 1  
1970

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# *Another Practical Use for* **MASONITE PRODUCTS**

Product Manufactured  
Appliances  
Refrigerators -  
Insulation

USE: Insulation in refrigerators -  
filler strips

MASONITE MATERIAL USED:

Cellufoam

OTHER MATERIAL FREQUENTLY USED:

Mineral wool

HOW MASONITE PRODUCT IS USED:

Small strips of Cellufoam are cut to  
fit the small openings in the box  
and merely slipped in place.

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM  
PRODUCT FOR THIS PURPOSE:

It makes a light container because  
Cellufoam is so light.

It saves labor. No fluffing is required and neither is cutting or packing down.  
Cellufoam comes cut to the exact shape.

It saves material cost. There is no charge for cutting to the exact size and  
shape needed, and there is no charge for waste.

It is non-irritating to workmen. There is nothing about Cellufoam which can ir-  
ritate workers' skins or injure their lungs.

It is uniform insulation. Cellufoam comes in semi-rigid sheets. When put in  
place there can be no gaps, and no place where the insulation is packed so  
tight that its efficiency is spoiled.

It will not rot or disintegrate. Even if it were soaked in a flood, it would  
dry out and have practically the same high insulation qualities.

Cellufoam cut to size is not dusty.



Picture courtesy of  
Coolerator Company, Duluth, Minnesota

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## *Another Practical Use for* **MASONITE PRODUCTS**

Product Manufactured  
Appliance  
Refrigerators -  
Sound Absorption  
Around Motors

USE: Acoustical sound absorption material around the motor of electric refrigerator

### MASONITE MATERIAL USED:

Cellufoam

### OTHER MATERIAL FREQUENTLY USED:

Special acoustical panels, hair felt, etc.

### HOW MASONITE PRODUCT IS USED:

It is wrapped around the motor compartment in order to reduce the sound.

### SPECIAL ADVANTAGES OF MASONITE CELLU-FOAM PRODUCT FOR THIS PURPOSE:

It has high acoustical efficiency.

Because it is semi-rigid, it is easily wrapped around the motor and held in place.

It is non-irritating.

It will not rot or disintegrate.



Picture courtesy of  
Sears Roebuck & Co., Chicago, Ill.

## **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

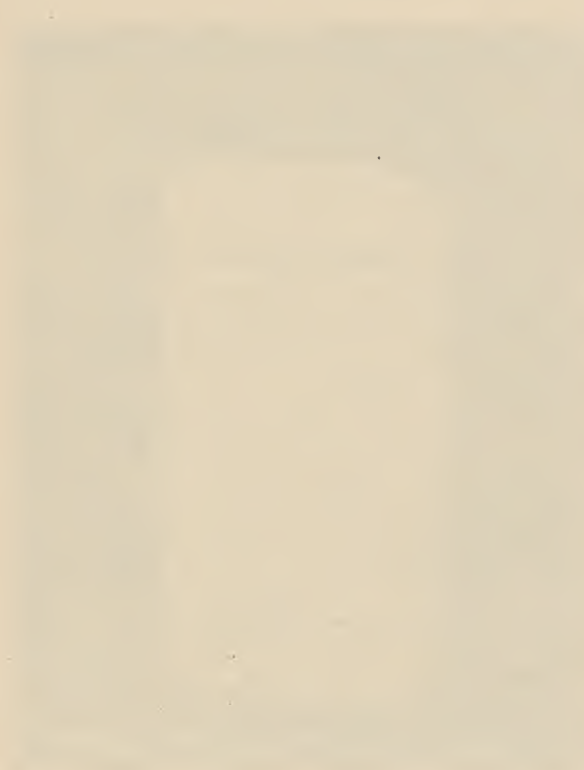
It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.





# *Another Practical Use for* **MASONITE PRODUCTS**

Product Manufactured  
Civilian Defense -  
Blackout Panels  
Padding for Glass Windows

USE: As padding to protect glass in case of bombings

## MATERIAL USED:

Cellufoam

## OTHER MATERIAL FREQUENTLY USED:

Cotton, Hair Felt, etc.

## HOW MASONITE PRODUCT IS USED:

Pieces of Cellufoam, the size of the window, are placed against the glass window pane on both sides and backed up by a firmer material, such as Standard or Tempered Presdwood. This type of blackout panel reduces breakage of glass, and experience in bombed areas indicates that there is more damage caused by glass splinters than by bomb splinters.

This type of blackout panel also prevents transmission of light through the glass, even though the actual solid part of the panel is not tight.

## SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Cellufoam is easily cut to fit actual window panes.

It is very soft and absorbant.

It is firm enough to hold its shape with sharp edges. This is not true of cotton or other padding materials frequently used.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

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That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.





## Another Practical Use for **MASONITE PRODUCTS**

Product Manufactured  
Electrical Equipment  
Radios, Phonographs,  
Juke Boxes -  
Acoustical Treatment

USE: As acoustical material in radios,  
phonographs, and juke boxes

### MASONITE MATERIAL USED:

Cellufoam

### OTHER MATERIAL FREQUENTLY USED:

Felt Insulation, Kapok, Sealpak, etc.

### HOW MASONITE PRODUCT IS USED:

It is used as acoustical absorbent material in tone boxes of radios, phonographs, and juke boxes.

The absorbent Cellufoam pads reduce reverberation and secure a better range of tones with both high and low frequency pitch.

The pads are usually glued to the parts of tone boxes where they do the most good.

### SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

It has excellent sound absorption qualities, particularly for the higher pitched sounds. (Coefficient of over .80 for frequencies above 1024, when nailed to furring strips.)

It is economical because it comes cut to size with no charge for cutting or for waste.

It goes in place with low labor cost because the workman does not have to fluff it out or fit it in. It is cut to shape.

### WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but  $1\frac{1}{2}$  pounds per cubic foot.

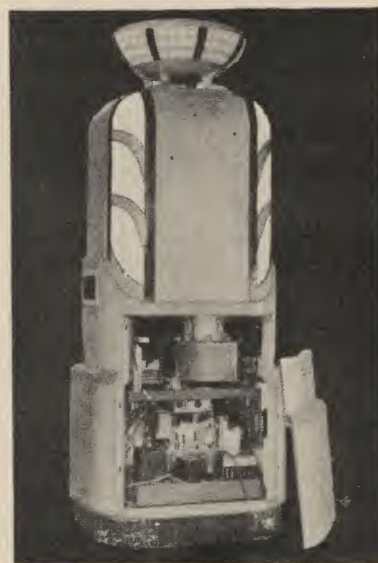
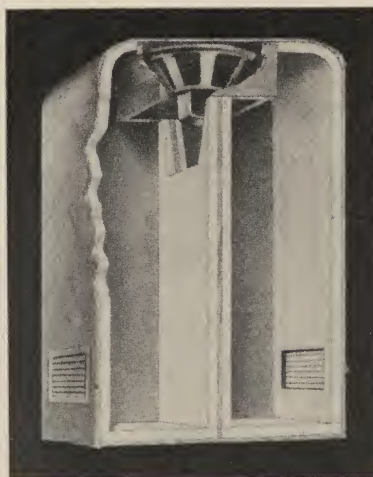
It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.



Pictures courtesy of  
Rock-Ola Mfg. Corp., Chicago, Ill.

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# *Another Practical Use for* **MASONITE PRODUCTS**

Product Manufactured  
Farm Equipment  
Poultry Supplies -  
Incubator Insulation

USE: Insulation for incubators

## MASONITE MATERIAL USED:

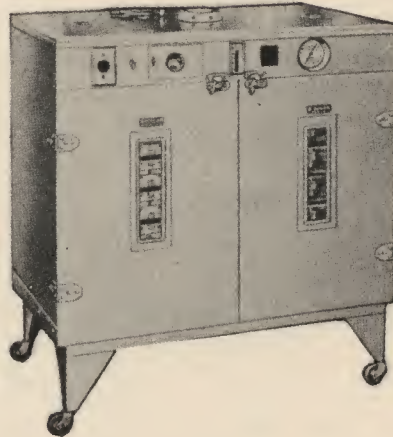
Cellufoam, or semi-rigid insulation

## OTHER MATERIAL FREQUENTLY USED:

Cork, mineral wool

## HOW MASONITE PRODUCT IS USED:

It is cut to size and placed in the space provided for it in the incubator.



## SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

There is nothing in Cellufoam which would injure baby chicks if they pecked it.

No other material provides more insulation per pound of weight. This saves cost to customer because of lower freight and handling expense.

It saves material cost. There is no charge for cutting to the exact size and shape needed, and there is no charge for waste.

It saves labor. No fluffing is required and neither is packing down or cutting. Cellufoam comes cut to the exact shape.

It is non-irritating to workmen. There is nothing about Cellufoam which can irritate workers' skins or injure their lungs.

It will not rot or disintegrate. Even if it were soaked in a flood, it would dry out and have practically the same high insulation qualities.

Cellufoam cut to size is not dusty.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

THE HISTORY OF THE  
CITY OF BOSTON



By JAMES R. HARRIS, Esq.  
Author of "The History of the City of Boston," &c.

The history of the city of Boston, from its first settlement in 1630, to the present time. This work is the result of a long and laborious investigation, and is intended to be a complete and accurate history of the city, and of the people who have lived in it. It is divided into three parts: the first part contains a general history of the city, from its first settlement to the present time; the second part contains a history of the city, from its first settlement to the present time; and the third part contains a history of the city, from its first settlement to the present time.

Published by J. R. HARRIS, Esq.

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CITY OF BOSTON  
By JAMES R. HARRIS, Esq.  
Author of "The History of the City of Boston," &c.



## *Another Practical Use for* **MASONITE PRODUCTS**

Product Manufactured  
Shipping Supplies -  
Shipping Blanket for Use  
in Trucks

USE: Shipping blankets that will protect  
truck shipments

MASONITE MATERIAL USED:

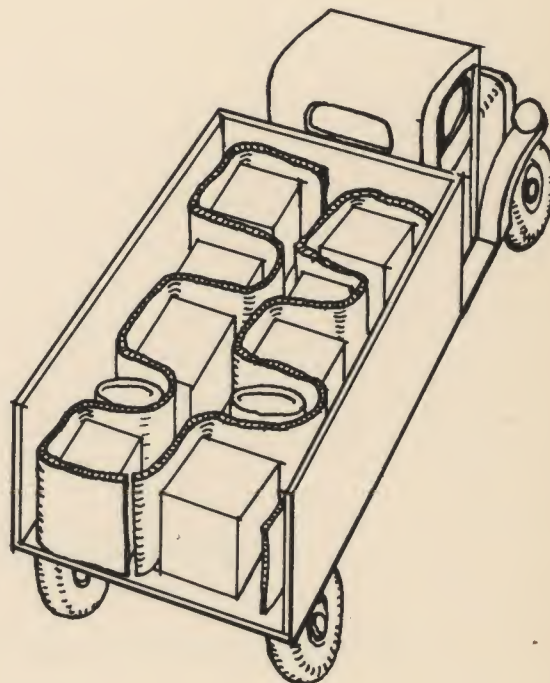
Cell-U-Blanket

OTHER MATERIAL FREQUENTLY USED:

Cotton blankets

HOW MASONITE PRODUCT IS USED:

Cell-U-Blanket in strips of desired widths is laced in between boxes containing fragile materials being handled by truck transportation. Other strips of Cell-U-Blanket can be laid over the top of a layer to provide a pad between various layers of fragile cargoes.



SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Cell-U-Blanket has a great deal of cushioning action. It is resilient but not bouncy as is sponge rubber.

It prevents the scratching and marring of items protected in this way.

Cell-U-Blanket is covered by a strong, sturdy, water-proof and vapor barrier which reinforces the material and makes it possible to use it over and over again.

It is low in first cost and low in cost per trip because of this re-use.

It does not settle or sag when in a vertical position. In a horizontal position it keeps the goods from sliding.

### **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

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FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY



REPORT ON THE RESEARCH  
CONDUCTED BY  
DR. [Name] AND  
ASSISTANT  
[Name]

The following report describes the results of the research conducted by Dr. [Name] and his assistant, [Name], during the year 19[ ] at the University of Chicago. The work was supported by the National Science Foundation and the University of Chicago.

The research was carried out in the Department of Chemistry, University of Chicago, under the supervision of Dr. [Name]. The results of the work are presented in the following sections:

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Approved by [Name]  
[Signature]



# *Another Practical Use for* **MASONITE PRODUCTS**

Transportation  
Airplane -  
Acoustical Treatment

USE: Acoustical treatment in airplanes

## MASONITE MATERIAL USED:

Cellufoam, flame-proofed

## OTHER MATERIAL FREQUENTLY USED:

Felted Kapok, Sea-Pak

## HOW MASONITE PRODUCT IS USED:

It is cut to fit between the ribs, and  
cemented in place.

## SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Cellufoam has excellent sound absorbing and heat resisting qualities.

Its semi-rigid qualities make it stay in place.

Since it is cut to size with true, square edges, it goes in place with a  
minimum of labor.

Flame-proofed Cellufoam will not support combustion. It is fire-resistant.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.





## *Another Practical Use for* **MASONITE PRODUCTS**

Transportation  
Cars and Trucks -  
Dashes

USE: Insulation of dashes of automobiles  
and trucks

MASONITE MATERIAL USED:

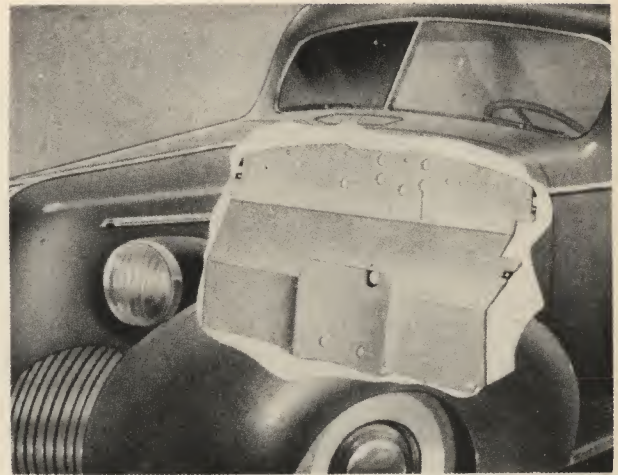
Cellufoam

OTHER MATERIAL FREQUENTLY USED:

Hair-felt, board insulation, corrugated board

HOW MASONITE PRODUCT IS USED:

It is cut to size with accurate dies  
and cemented to the metal dash



Picture courtesy of  
Woodall Industries, Detroit, Mich.

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

It is an excellent thermal and acoustical insulator which can be cut to the required irregular shapes at low cost with dies. Even holes and slots can be cut this way.

It goes in place with low labor cost because the workman does not have to fluff it out or fit it in. No covering is needed to prevent settling or sagging.

It is easily applied.

If it should get soaked in a flood, it will return to its original form when dried.

It will not crumble or disintegrate even under severe vibration conditions of constant driving.

### **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

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FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

# THE HISTORY OF THE CITY OF BOSTON

BY  
JOSEPH NEALE

IN TWO VOLUMES.

VOLUME I.

FROM THE FOUNDATION OF THE CITY  
TO THE PRESENT TIME.

IN TWO VOLUMES.

THE FIRST VOLUME.

FROM THE FOUNDATION OF THE CITY  
TO THE PRESENT TIME.

IN TWO VOLUMES.

THE SECOND VOLUME.

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## Another Practical Use for **MASONITE PRODUCTS**

Transportation  
Railroad Cars -  
Portable Refrigerators  
for L C L Shipments of  
Frozen Foods

**USE:** Insulation in portable refrigerators  
for L C L shipments of frozen foods

### **MASONITE MATERIAL USED:**

Cellufoam, Cell-U-Blanket

### **OTHER MATERIAL FREQUENTLY USED:**

Wood bark, cork

### **HOW MASONITE PRODUCT IS USED:**

The cut-to-size sheets are slipped  
in place between framing members.



### **SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:**

It goes in place with a minimum of labor. No fluffing is required.

Cellufoam comes cut to size and Cell-U-Blanket comes in various standard widths to fit between the framing members.

It will not crumble or disintegrate even under the severe vibration conditions of constant driving.

It is non-irritating to workmen. There is nothing about Cellufoam which can irritate the workers' skins or injure their lungs.

It will not rot or disintegrate.

## **WHAT IS CELLUFOAM?**

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

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That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

CHICAGO, ILL.

1911



REPORT OF THE  
COMMISSIONER OF THE  
BUREAU OF MINES  
ON THE  
PROGRESS OF THE  
WORK DURING THE  
YEAR 1911

WASHINGTON  
GOVERNMENT PRINTING OFFICE  
1912



# *Another Practical Use for* **MASONITE PRODUCTS**

Transportation  
Railroad Cars -  
Refrigerator Cars

USE: Insulation in refrigerator cars

## MASONITE MATERIAL USED:

Cell-U-Blanket, Cellufoam

## OTHER MATERIAL FREQUENTLY USED:

Kapok, mineral wool, fiber glass

## HOW MASONITE PRODUCT IS USED:

When Cell-U-Blanket is used, it is merely set between the framing members of the car and stapled.

When Cellufoam is used, it is applied between the framing members and a vapor barrier is applied separately after the insulation is in place.



Picture courtesy of  
Sante Fe Railroad

## SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

It goes in place with a minimum of labor. No fluffing is required.

Cellufoam comes cut to size and Cell-U-Blanket comes in various standard widths to fit between the framing members.

It will not crumble or disintegrate even under severe vibration conditions of constant driving.

It is non-irritating to workmen. There is nothing about Cellufoam which can irritate the workers' skins or injure their lungs.

It will not rot or disintegrate.

## WHAT IS CELLUFOAM?

Cellufoam is one of the most efficient and lightest insulating materials known.

It weighs but 1½ pounds per cubic foot.

It has high thermal efficiency—K factor of .26.

It has high acoustical properties—noise reduction coefficient of 0.65.

It is semi-rigid. This means it will not settle, sag or pack down.

It can be cut with shears; or bought cut-to-shape, with sharp, accurate edges.

That is why Cellufoam is a preferred material for sound control purposes and thermal insulation. It is the core of Cell-U-Blanket.

FOR MORE INFORMATION WRITE *Masonite Corporation* 111 WEST WASHINGTON ST., CHICAGO, ILL.

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# *Another Practical Use for* **MASONITE PRODUCTS**

Product Manufactured  
Transportation  
Railroad Cars and Busses-  
Roof and Side Wall Insu-  
lation

USE: Roof and side wall insulation in  
railroad cars and busses.

## MASONITE MATERIAL USED:

Cellufoam

## OTHER MATERIAL FREQUENTLY USED:

Mineral wool, wood bark, etc.

## HOW MASONITE PRODUCT IS USED:

Cellufoam sheets, cut-to-size,  
merely slip in the openings  
between the framing members.



## SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Picture courtesy of  
Fitzjohn Coach Co., Muskegon, Mich.

Cellufoam is an efficient acoustical material. It keeps the sound of the road from coming in and absorbs the noises from the car or bus.

Cellufoam is an efficient thermal insulation. It saves heat in the winter and makes the coach more comfortable in the summer.

Its light weight reduces the dead weight in the cars or busses.

It saves labor. No fluffing is required, and neither is cutting or packing down. Cellufoam comes cut to the exact shape.

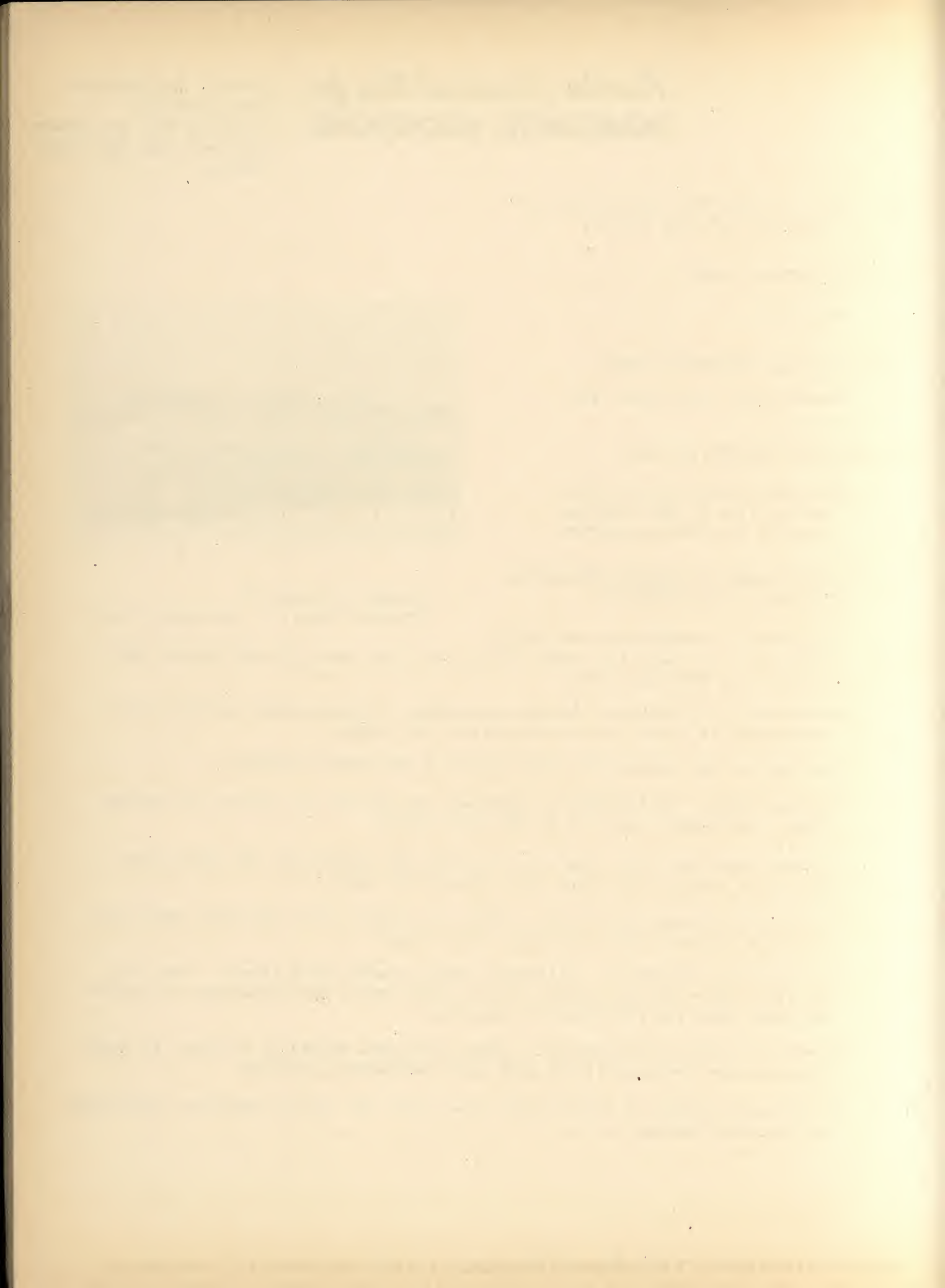
It saves material cost. There is no charge for cutting to the exact size and shape needed, and there is no charge for waste.

It is non-irritating to workmen. There is nothing about Cellufoam which can irritate workers' skins or injure their lungs.

It is uniform insulation. Cellufoam comes in semi-rigid sheets. When put in place there can be no gaps, and no place where the insulation is packed so tight that its efficiency is spoiled.

It will not rot or disintegrate. Even if it were soaked in a flood, it would dry and have practically the same high insulation qualities.

It will not crumble or disintegrate even under the severe vibration conditions of constant driving.





# *Another Practical Use for* **MASONITE PRODUCTS**

Transportation  
Trailers -  
Insulation

USE: Insulation in trailers

## MASONITE MATERIAL USED:

Cellufoam, Cell-U-Blanket

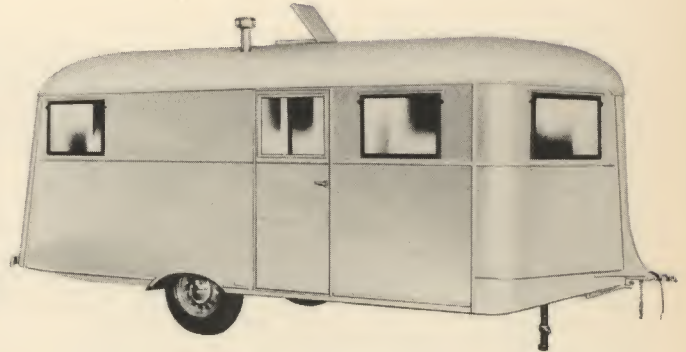
## OTHER MATERIAL FREQUENTLY USED:

Mineral forms of insulation, vegetable fibre

## HOW MASONITE PRODUCT IS USED:

Cellufoam is cut to size to slip into the spaces between the ribs and other framing members.

In some cases, the insulation should be stapled or nailed in place. In others, the insulation is held merely by the framing members and walls.



## SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Cellufoam is an efficient acoustical material. It keeps the sound of the road from coming in and absorbs the noises from the car.

Cellufoam is an efficient thermal insulation. It saves heat in the winter and makes the coach more comfortable in the summer.

Its light weight reduces the dead weight in the trailer.

It saves labor. No fluffing is required, and neither is cutting or packing down. Cellufoam comes cut to the exact shape.

It saves material cost. There is no charge for cutting to the exact size and shape needed, and there is no charge for waste.

It is non-irritating to workmen. There is nothing about Cellufoam which can irritate the workers' skins or injure their lungs.

It is uniform insulation. Cellufoam comes in semi-rigid sheets. When put in place there can be no gaps, and no place where the insulation is packed so tight that its efficiency is spoiled.

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## *Another Practical Use for* **MASONITE PRODUCTS**

Transportation  
Trucks -  
Insulation for Walls  
and Ceilings

USE: Insulation for walls and ceilings  
of trailers

MASONITE MATERIAL USED:

Cell-U-Blanket, Cellufoam

OTHER MATERIAL FREQUENTLY USED:

Mineral wool, shredded bark, etc.

HOW MASONITE PRODUCT IS USED:

The flange of Cell-U-Blanket is nailed or stapled to studs of the truck body and rafters. It is then usually covered with some protective material such as Tempered Presdwood, wood, or metal to keep the contents of the truck from injuring the insulation.



Picture courtesy of  
Steffke Freight Lines, Wausau, Wis.

SPECIAL ADVANTAGES OF MASONITE CELLUFOAM PRODUCT FOR THIS PURPOSE:

Its light weight reduces the dead weight in the trailer or truck.

It saves labor. No fluffing is required, and neither is cutting or packing down. Cellufoam comes cut to the exact shape.

It saves material cost. There is no charge for cutting to the exact size and shape needed, and there is no charge for waste.

It is non-irritating to workmen. There is nothing about Cellufoam which can irritate workers' skins or injure their lungs.

It is uniform insulation. Cellufoam comes in semi-rigid sheets. When put in place there can be no gaps, and no place where the insulation is packed so tight that its efficiency is spoiled.

It will not rot or disintegrate. Even if it were soaked in a flood, it would dry out and have practically the same high insulation qualities.

It will not crumble or disintegrate even under severe vibration conditions of constant driving.

# Abstract of the Proceedings of the General Assembly of the Province of Ontario

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## R E P O R T

to

MASONITE CORPORATION

December 6, 1940

In this report we present the results obtained from tests which we have conducted to determine the rate of heat flow through Cellufoam Blanket insulation. The test samples used in this investigation were submitted to us by the Cellufoam Products Division of Masonite Corporation. These samples may be described as follows:

No. 1 - 1/2" Standard Cellufoam Blanket

No. 2 - 1/2" Silvercote Cellufoam Blanket

In conducting these tests the plates of the heat conductimeter were placed 3-5/8" apart. The blanket was located in this space 5/8" from the hot plate. You will note that from this arrangement an air space slightly less than 2-1/2" will be provided between the test sample and the cold plate. It is important to note also that the final results obtained from such an assembly will include the thermal resistance of two air spaces as well as that of the blanket.

Upon referring to the data below you will note that the figures given for thickness and density include the paper wrapping in both cases. The heat transmission, which we have indicated by the letter "U", is expressed in Btu's per hour per square foot of

A R M O U R . R E S E A R C H . F O U N D A T I O N





blanket per degree Fahrenheit of temperature difference between the hot plate and the cold plate.

Results are as follows:

HEAT TRANSMISSION TESTS OF CELLUFOAM BLANKETS

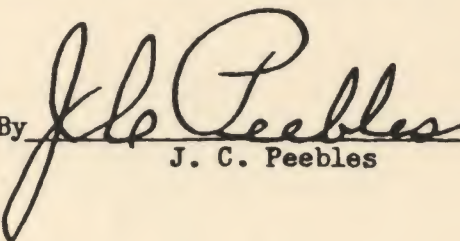
FLAT PLATE METHOD

Sample	Size Inches	<sup>+</sup> Thickness Inches	<sup>+</sup> Density Lb.Cu.Ft.	Mean Temp. Deg. Fah.	Heat Transmission "U"
No. 1	15 x 15	0.55	4.30	72	0.26
No. 2	15 x 15	0.55	3.65	72	0.21

<sup>+</sup>Including paper wrapping.

Respectfully submitted,

ARMOUR RESEARCH FOUNDATION

By   
J. C. Peebles

c

A R M O U R . R E S E A R C H . F O U N D A T I O N





R E P O R T  
to  
MASONITE CORPORATION

October 11, 1940

In this report we present the results obtained from Water Vapor Penetration tests which we have conducted on samples of insulation which you have submitted to us. The samples used in this investigation are as follows:

1. Cellufoam Insulation approximately 1" thick covered on one side with asphalt impregnated kraft paper and on the other side with non-metallic reflective insulation.
2. Cellufoam Insulation approximately 1" thick coated on one side with asphalt impregnated kraft paper and on the other side with asphalt coated kraft paper.

In conducting the tests we have used the Thwing Vapometer method. The result is expressed in grams of water vapor passing through one square foot of material in one day. The results are as follows:

Water Vapor Penetration Tests of Cellufoam


Thwing Vapometer Method

Sample	Vapor Penetration Grams per Day per Sq. Ft. of Area
No. 1	0.38
No. 2	0.53

In order that the above figures may be better understood it should be noted that a good quality of moisture resisting insulating paper, such as would be used in dwelling house construction, would show a water vapor penetration varying from 1.00 to approximately 1.40 grams per day per square foot of area. You will note, therefore, that the results obtained above are very satisfactory.

Respectfully submitted,

RESEARCH FOUNDATION OF  
ARMOUR INSTITUTE OF TECHNOLOGY

By   
J. C. Peebles





U. S. DEPARTMENT OF COMMERCE

NATIONAL BUREAU OF STANDARDS

WASHINGTON

ADDRESS REPLY TO  
NATIONAL BUREAU OF STANDARDS

IN YOUR REPLY  
REFER TO FILE

VLC:LJ

June 26, 1939

VI-2/Tn-86211

Cellufoam Corporation,  
(Attn. Mr. C. V. Swank),  
66th Street and LaVergne Ave.,  
Chicago, Illinois.

Subject: Report of Sound Absorption Test  
on 1" Type HD Acoustical Cellufoam

Gentlemen:

As requested in your letter of May 12, "we have tested the sample of HD Acoustical Cellufoam which you sent us, in our reverberation chamber, for sound absorption. This sample consisted of 8 units, each 3 ft by 3 ft by 1 inch thick.

As requested, this material was tested on two different mountings, when nailed to 13/16" x 2" furring, 12" on centers; and when cemented to gypsum wall board."

The results of the test are as follows:

Frequency (Cycles per Second)	Coefficient of Sound Absorption	
	<u>Nailed to Furring</u>	<u>Cemented</u>
128	.14	.11
256	.33	.28
512	.58	.60
1024	.82	.70
2048	.83	.73
4096	.82	.78
Noise Coefficient	.65	.60
Weight in lb per sq ft	.14	.14

Respectfully,



Lyman J. Briggs, Director.







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